Sediment Characterization in the Middle Peoria Pool, Illinois River

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ILLINOIS DEPARTMENT OF NATURAL RESOURCES
Illinois State WATER SURVEY

DRAFT REPORT

Sediment Characterization in the Middle Peoria Pool, Illinois River

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Introduction

The Illinois Waterway (IWW) is a significant resource to the state of Illinois and the nation as a whole. Commercial navigation on the Illinois Waterway provides a vital means for transporting commodities to and from blue water ports on the East and Gulf coasts of the United States. However throughout the world large floodplain-river ecosystems, like the Illinois River, are becoming increasingly rare. The National Research Council Committee on Aquatic Ecosystems considered this ecosystem type to be the highest priority for aquatic restoration and specifically named the Illinois River as one of three floodplain-river ecosystems within the United States having sufficient ecological integrity to recover. To address the concomitant while sometimes competing needs of commercial navigation and ecological integrity the US federal government, through the Army Corp of Engineers (COE), and the Upper Mississippi River states have proposed the Navigation and Ecological Sustainability Project (NESP) as a means of improving navigation along the Upper Mississippi and Illinois Waterways while improving and/or mitigating the environmental impacts associated with the navigation improvements. As part of this effort it is envisioned that certain backwater areas within the middle Peoria Pool area will be dredged and the dredged material will be used for the construction of islands, elevated floodplain areas or other beneficial uses. These deep water areas will provide suitable over-winter habitat for native fish species while the islands and elevated floodplain areas will diversify terrestrial habitats within that river reach and provide loafing and nesting habitat for waterfowl and shorebirds.

These Options 1-3 of this project seek to provide additional data to help further characterize the sediments found in the middle reach of the Illinois River. For this project that area can generally be described as that portion of the Illinois River between Lacon and Chillicothe IL. The descriptions, photos, and analytical results of the analyses for the 16 sediment cores collected May 8-9, 2006 are presented

Acknowledgments

This research project was funded by the US Army Corps of Engineers, Rock Island District. Marshall Plumley served as project manager. Kip Stevenson and Josh Stevens of ISWS assisted in the collection the vibrocore samples. Kip Stevenson, Joy Telford, and John Marlin were integral in processing the collected sediment cores. Joy Telford and Dana Shackleford with the ISWS performed the percent moisture analyses while Yi Han also with the ISWS was responsible for the particle size analyses. Patti Hill collated report materials and prepared the final report.

Study Area

Sediment cores for this project were collected between River Mile (RM) 182 and RM192. Figure 1 shows the location where each sediment core was collected. Coordinates for each core location can be found in Table 1. Location and other pertinent information regarding the collection of the sediment cores can be found on the field sheets generated for this project. These field sheets can be found in Appendix A.

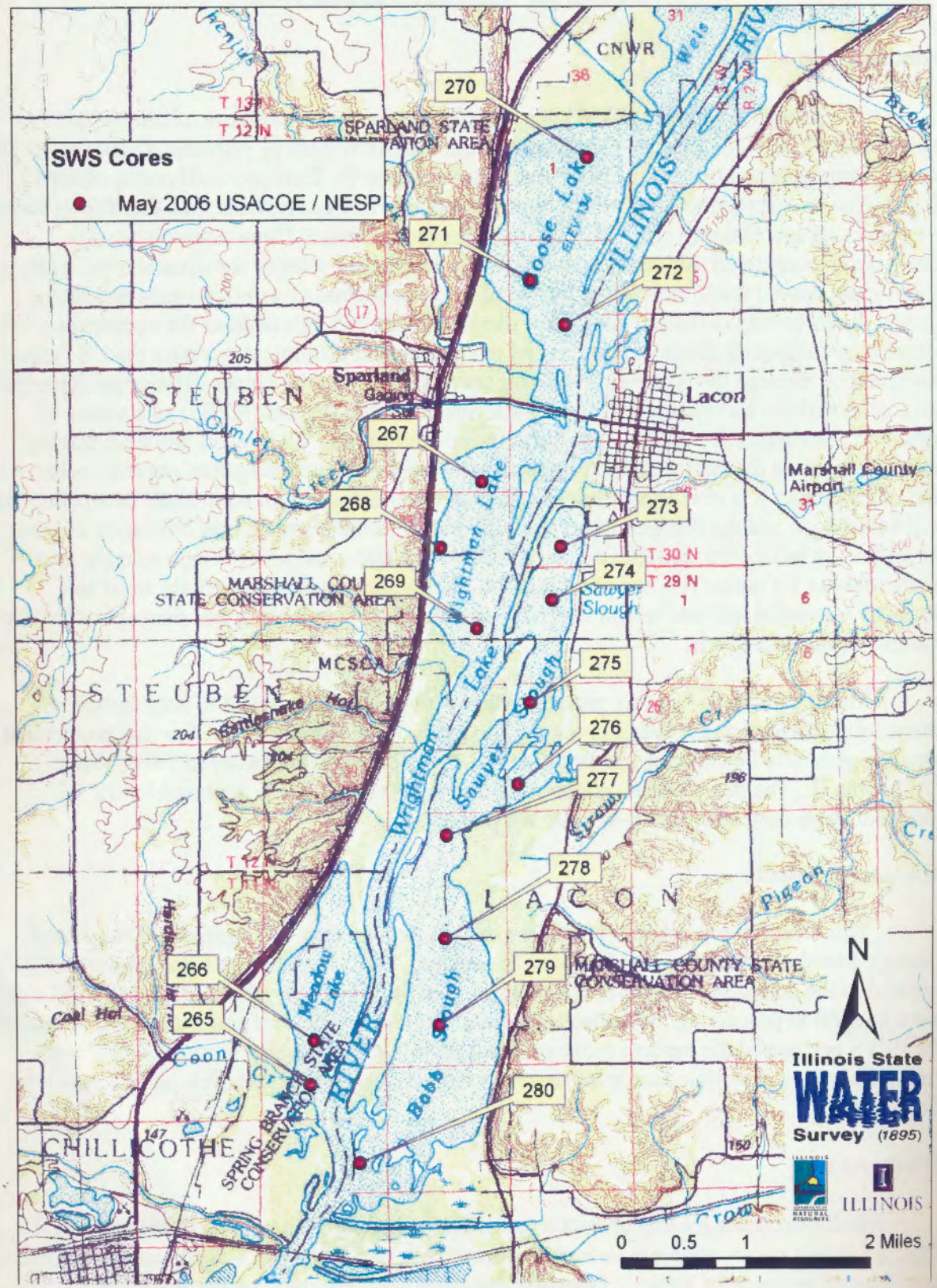


Figure 1. Location of sediment cores collected for this project.

Table 1. Illinois River NESP Sediment Cores Sampling Locations

Core ID	*Location*		*Water Body*
	Latitude	*Longitude*	
265	N40°56'54.9"	W89°27'32.9"	Lower Meadow
266	N40°57'13.5"	W89°27'30.7"	Middle Meadow
267	N41°01'05.8"	W89°25'55.3"	Upper Wightman
268	N41°00'38.4"	W89°26'18.4	Lower Wightman
269	N41°00'04.7"	W89°25'58.5"	Middle Goose
270	N41°03'20.3"	W89°24'55.8"	Upper Goose
271	N41°02'29.5"	W89°25'27.5"	Middle Goose
272	N41°02'11.0"	W89°25'08.7	Lower Goose
273	N41°00'38.8"	W89°25'11.7"	Upper Sawyer
274	W41°00'16.6"	W89°25'16.7"	Upper Sawyer
275	N40°59'33.7"	W89°25'29.2"	Middle Sawyer
276	N40°58'59.7"	W89°25'36.3"	Lower Sawyer
277	N40°58'38.6"	W89°26'16.3"	Lower Sawyer
278	N40°57'55.4"	W89°26'17.5"	Upper Babbs
279	N40°57'19.3"	W89°26'21.0"	Middle Babbs
280	N40°56'22.3"	W89°27'06.0"	Lower Babbs

Methods

All sediment cores for this project were collected using the Illinois State Water Survey's (ISWS) vibrocore. The vibrocoring system employed by the ISWS is a model P-3c manufactured by Rossfelder Corporation of Ponway, California. The vibrocoring unit is submersible, weighs approximately 150 lbs and is powered by a three phase, 240 volt 60 Hz generator. The P-3c has a working depth of 4,000 ft. Sediment penetration is achieved through a method known as vibro-percussive where the unit delivers 16-24 KN (1 KN= 225 lbs.) of force and a vibration frequency of 3,450 vibrations per minute to the core tube. Coring is made possible by both the percussive force of the corer as well as the fact that the sediment particles surrounding the drive tube are "liquefied" by the vibrational forces along the tube. The corer is lowered into the sediment until the point of refusal. The unit is then engaged and coring proceeds until penetration ceases or the entire length of the drive tube is reached. The vibrocore is then extracted from the sediments with the aid of an electric winch. Once the vibrocore has been brought back to the deck the HDPE liner, containing the sample< is removed capped and placed within a PVC transport tube in order eliminate the chance of the liner being flexed and the sediments being disturbed. Penetration depths and recovery rates depend on many factors such as the water content of the sediment, particle size and shapes, compaction / density, and even calcification. Therefore, the best results will always be obtained in unconsolidated, water-saturated, sediments that are poorly sorted. A detailed description of the procedures used for the collection of long sediment cores using the vibrocore can be found in *Standard Operating Procedures for the Collection of Sediment Cores Using the Rossfelder 3-Pc Vibrocore.* A copy of this SOP is included as Appendix B.

All sediment cores collected in 2006 for this project were brought to the ISWS field office in Peoria on the day they were collected and stored in a walk-in cooler until the cores were subsampled. Sediment cores collected on 5/8/06 were processed and shipped on ice to Severn Trent Laboratories (STL) in Chicago on 5/9/06 while sediment cores collected on 5/9/06 were processed and shipped on 5/10/06.

Samples from each core were prepared using the following procedure. The sediment cores are first placed in a jig which is essentially a tube that has been split in half lengthwise and is hinged on one side. The ends of the core are cut and a polymer line inserted into the cut at the bottom of the core. The jig is then closed and the sides of the tube are cut using a stainless steel razor knife. The polymer line is then pulled through the core and then the entire jig is rolled onto the hinge side and allowed to fall open resulting in the core being split in half lengthwise and each half being cradled inside the open jig. The cores are then measured, described and photographed. For this project composite samples were created for chemical and particle size analyses. Chemical sample composites were developed by taking 2 centimeters (cm) of sediment every 20cm starting at 8cm from the top from one side of the core. This results in those sections described by 8-10cm, 28-30cm, 48-50...etc through the entire length of the core being sampled. Subsampling was initiated at 8cm since the sediments at the sediment water interface are highly flocculent, often with moisture contents in excess of 50%. The sections were placed in a stainless steel bowl as they were removed from the split core liner and thoroughly mixed using stainless steel utensils. The composite samples were then placed in clean QEC bottles supplied by STL, sealed and placed in an iced cooler for shipment later that day. Composite samples for particle size analyses were created in the same manner using intervals described by 12-14cm, 32-34cm, 52-54cm ...etc. These composite samples were brought to the ISWS sediment laboratory in Champaign IL for analysis. Samples for percent moisture analyses were collected in 2cm samples taken every 40 cm. Sub-sampling for percent moisture for each core began at 6cm resulting in 6-8cm, 46-48cm, 86-88cm... etc for the entire length of the core. Percent moisture samples were analyzed individually at the ISWS sediment laboratory in Peoria.

Results

The following sections and tables are the chemical, particle size and percent moisture results for the 16 long sediment cores collected under options 1-3 of this contract. Sample number used is the same as the Core ID number and range from 265-280 for this portion of the project. All cores for this project were collected during May 8-9, 2006. River stages at the time the cores were collected ranged from 13.12-12.99 on 5/8/06 and 12.88-12.81 on 5/9/06 for the Illinois River gage at Peoria (05560000, 428.39 datum) and 16.07- 15.99 on 5/8/06 and 16.00-15.94 on 5/9/06 for the Illinois River gage at Henry IL (05558300, 425.88 datum).

Appendix C is the complete chemical results received from Severn Trent Laboratories including applicable QA/QC data. Appendix D is the particle size results in both spreadsheet and plotted formats. Please note that a logarithmic scale is used for the plotted results. Appendix E contains the percent moisture data. Bulk density is provided in the Section 1 as part of STL's results. Color photographs of each sediment core are provided in Appendix F.

References

ISWS. 2005. *Standard Operating Procedures for the Collection of Sediment Cores Using the Rossfelder P-3c Vibrocore.* Illinois State Water Survey, Champaign IL

Results for Contract Base Option

Test Results for Unit Weight, Particle Size, Organic Carbon and ^{137}Cs Profiles from Six Cores Collected in the Fall of 2002

Abstract

This work entailed the analysis of long sediment core samples in the Middle Peoria Pool of the Illinois River. This pool of the Illinois River contains a significant number of backwater lakes that are potential sites for ecosystem restoration work under the Illinois River Basin 519 program. Selective dredging and other remediation strategies to diversify habitats require that additional information be obtained regarding the physical and chemical properties of the sediments within this pool.

This work consisted of analyses of 6 sediment cores. Sampling strategy and approximate locations for coring locations were developed through a joint effort of the sponsor and the contractor. The cores were sub-sampled in 10 cm intervals to the top of the original floodplain soil, if present. When original floodplain soils were present, larger intervals (~25 cm) were then taken to the base of the core.

Acknowledgements

This research project was funded by the US Army Corps of Engineers, Rock Island District. Marshall Plumley and Scott Whitney were the project managers. Jim Slowikowski, Kip Stevenson and Ted Snider of ISWS did the fieldwork. John Steele, Gary Salmon, Ray Henderson, Ama Addai, and Jackie Plocher of ISGS helped with the preparation of the sediment cores and assisted in the analysis.

Field Procedures

Sediment cores were collected using the Illinois State Water Survey (ISWS) vibracorer. The vibracorer was mounted on a pontoon boat that provided a safe stable platform for the collection of cores up to 10 feet (ft) in length. Sampling locations were dependent, in part on water levels. Approximately 0.9 foot (ft) of water depth was required for safe operation of the pontoon boat

The vibracoring system employed by the ISWS is a model P-3c manufactured by Rossfelder Corporation of Ponway, California. The vibracoring unit is submersible, weighs 150 pounds (lb) and is powered by a three phase, 240 volt 60Hertz (Hz) generator. The vibracorer uses a steel core tube with 10 centimeter (cm) diameter HPDE liners. Sediment penetration is achieved through a method known as vibro-percussive where the unit delivers 16-24 kilonewton (KN) (1 KN= 225 lb) of force and a vibration frequency of 3,450 vibrations per minute to the core tube. Coring is made possible by both the percussive force of the corer as well as the fact that the sediment particles surrounding the drive tube are "liquefied" by the vibrational forces

along the tube. The corer is lowered into the sediment until the cutter nose encounters sediments with sufficient cohesiveness to stabilize the drive tube. The unit is then engaged and coring proceeds until penetration ceases or reaches the entire length of the drive tube. Penetration depths and recovery rates depend on many factors such as the water content of the sediment, particle size, and compaction/density.

Sample number, sample location, water depth, cored depth below sediment surface, recovered core length, time the core was collected or capped and comments on local conditions at the site were noted on chain-of custody log sheets. The sediment that remained in the core nose at the base of cores was saved in the field, and stored in plastic bags. All cores were capped, sealed, and labeled in the field and then transported to the Illinois State Geological Survey (ISGS) laboratories in Champaign.

Sampling Locations

Table 1 lists pertinent field information for sediment samples collected for this project. The GPS positions determined for this work were differentially corrected using Radio Technical Commission for Maritime Services (RTCM) correction signals broadcast by the U.S. Coast Guard from Rock Island, IL. The locations of lakes sampled are shown in Figure 1. Included in the figure are locations of cores collected in March 2002 as part of another sediment characterization project (Cahill, 2006).

Table 1. Field ID, Location, Date Sampled, Water Depth, UTM Location, Core Length and Cored Depth

Core ID		*Date*	*Water Depth (ft)*	*UTM 16 Easting (m)*	*Northing (m)*	*Core Length (ft)*	*Cored Depth (ft)*
SWS0059	Middle Goose	09/24/02	0.9	16T 0296643	4546412	7.4	10.0
SWS0060	Lower Goose	09/24/02	1.8	16T 0296554	4545687	4.9	8.3
SWS0061	Wightman	09/24/02	1.6	16T 0295429	4541809	8.8	10.0
SWS0062	Sawyer Slough	09/24/02	1.0	16T 0296379	4542348	6.8	8.9
SWS0063	Lower Meadow	09/25/02	0.9	16T 0293069	4535798	7.5	10.0
SWS0064	Lower Babb's	09/25/02	1.5	16T 0293761	4534951	7.7	10.0

Laboratory Procedures

Initial Processing of Sediment Sample

The core liners were partially cut lengthwise using a router to a depth that did not penetrate the sediment. The shavings from the core liner were removed with a shop vac and then the liner was cut with a utility knife. The sediment core was then divided into two halves using a 0.2 cm diameter copolymer trimmer line. The cores were described. The description of the core included texture and consistency, color, presence of shells or plant debris and changes in sediment characteristics with depth.

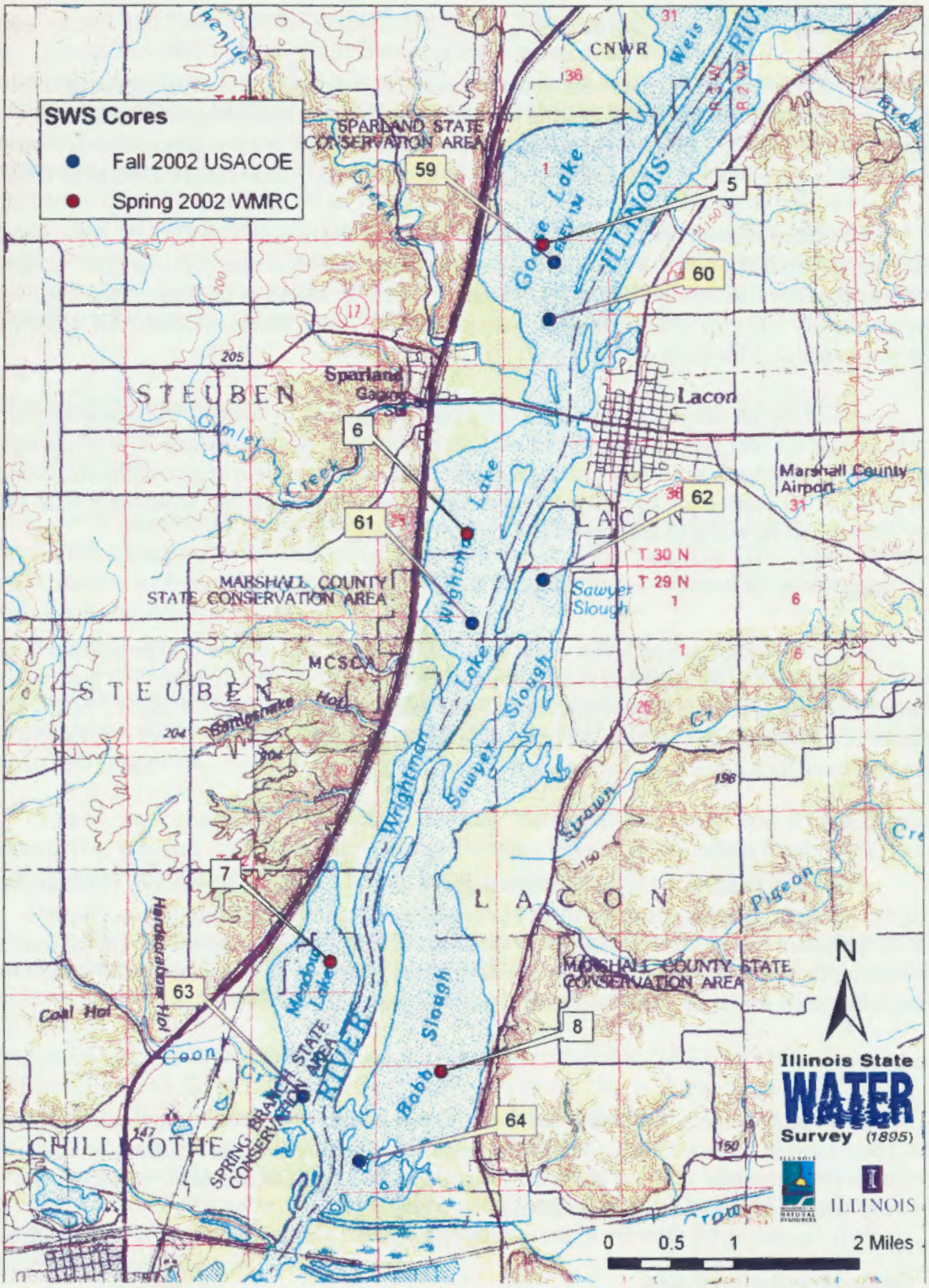


Figure 1. Location of sediment cores collected for this project and sediment cores collected for a sediment characterization project in 2002.

Sub-sampling of Sediment Cores

Careful sub-sampling of sediment cores samples is necessary in order to evaluate historic changes in sediment quality, evaluate the vertical extent of contamination and to measure sedimentation rates (U.S. EPA, 2001). Cahill et al observed that gross compositing of sediment intervals (>50 cm) often missed discrete layers of contaminated sediment (Cahill, et al 1999).

The cores were divided into 10 cm sections to the depth in the core where there was a clear change from silt-clay lake deposits to the top of the soil-alluvium deposits. The remaining core was then divided into sections approximately 25 cm in length to the base of the core. Approximately 300 g of wet sediment was air-dried in a Class 100 clean bench. Air dried weight loss was calculated for each core interval.

All of the air dried sediment samples were first ground by hand in a ceramic mortar and pestle to pass a 1 mm sieve and assigned analytical numbers. Approximately 30 g of the air dried and ground sediment was further ground using a SPEX 8505 alumina ceramic grinding container in a SPEX 8500 shatter box to pass a 60 mesh sieve for carbon analysis. Moisture loss at 110 ^{0}C was determined on splits of each ground sediment sample.

Unit Weight

For unit weight samples, the entire sediment interval was weighed. The sediment intervals were then well mixed in a large stainless steel basin. Approximately 300 g of wet sediment was air-dried, 75 g of wet sediment was dried in an oven at 110^{0}C for 12 hours, and the remainder of the sample was stored in zip- lock bags for particle size analysis. Wet and dry densities were then calculated for each interval.

Particle Size

Particle size analyses were conducted at the ISWS Sediment Laboratory in Champaign. Particle subsamples were collected in 10 cm sections and numbered from the top. Sample numbers contain the core ID number with the second number indicating the 10 cm increment. Thus, sample 61-4 represents core number 61 and the fourth 10 cm interval (30-40 cm). The complete results for these analyses can be found in Appendix 3.

Carbon

Sediment samples were analyzed for total and inorganic carbon by coulometric titration of carbon dioxide released from a sample by either combustion (for total carbon) or acid evolution (for inorganic carbon) at ISGS. Organic carbon was calculated as the difference between total carbon and inorganic carbon.

^{137}Cs Sedimentation Rates

The ^{137}Cs activity of each core was determined by counting the gamma activity of 10g of air-dried sediment with approximately 40-percent efficient Ge (Li) detectors for a minimum of 48 hours. The 662 keV photon activities in sediment samples were compared to the activity of

National Institute of Standards & Technology (NIST) Standard Reference Material 4350B. Plots of the ^{137}Cs activity versus depth in the core was used to select the position in the sedimentation record when fallout from the testing of nuclear weapons in the atmosphere began to be deposited in significant quantities (1952) or the peak time of fallout from nuclear weapons testing (1963). Sedimentation rates were calculated with either of these dates as a marker. All of the sedimentation rates obtained by this technique are based on the assumption of a constant rate of sedimentation over the time interval of interest (39 or 48 years) and limited reworking of sediments once they are deposited. The extent of the agreement between the two rates (based on the onset of and peak activity in atmospheric fallout) can be used to assess the uniformity of the sedimentation rates in an area. Large disparities between the rates may indicate that sediments in the area where the sample was collected have been disturbed over time.

Results and Discussion

Core Descriptions

Core 59 was collected near the middle of Goose Lake. The 0-104 cm interval was silt-clay with shell fragments, petroleum odor, and plant debris at the base. The 104-130 cm interval had soil structure with root fragments. The 130-224 cm interval was dense clay, with root fragments and iron-manganese stains.

Core 60 was collected in Goose Lake near the entrance to the Illinois River. The 0-58 cm interval was silt-clay with shells, strong petroleum odor and plant debris at the base. The 60-100 cm interval had soil texture, root fragments and plant debris. The 100-148 cm interval was dense clay with root fragments.

Core 61 was collected in Wightman Lake near the entrance to the Illinois River. The 0-240 cm interval was fine sand with silt, shell layers, plant debris and abundant shells at the base. The 240-269 cm interval was course sand with shells and plant debris.

Core 62 was collected near the middle of Sawyer Slough. The 0-127 cm interval was silt-clay, strong petroleum odor, and a layer of fingernail clams near the base. The 127-205 cm interval was peaty with plant debris. There was more clay and roots at the base.

Core 63 was collected in Meadow Lake near the entrance to the Illinois River and the delta formed by Coon Creek. The 0-115 cm interval was silt-clay with plant debris and shell layers. The 115-229 cm interval was dense clay with shells at the base.

Core 64 was collected in Babb Slough near the entrance with the Illinois River. The 0-65 cm interval was sand with some silt, plant debris and scattered shells. The 65-117 cm interval had abundant wood fragments. The 117-225 cm interval was sand with large mussel shell fragments near the base.

Air Dried Loss, Wet and Dry Density, Total Carbon, Inorganic Carbon and Organic Carbon

The results for Air Dried Loss, Moisture Loss, Unit Weight, Total Carbon, Inorganic Carbon and Organic Carbon are presented in Appendix 1. Plots of the results are presented in Appendix 2.

Table 2 summarizes the results air dried loss, unit weight, total carbon, inorganic carbon and organic carbon. Included in the table are results for four cores collected in the spring of 2002.

Cesium-137 Sedimentation Rate Results

The sedimentation rate results are listed in table 3. Included in the table are results for four cores collected in the spring of 2002. The ^{137}Cs profiles for cores 60, 61 and 64 collected in Lower Goose, Wightman and Babb's Slough did not have well defined profiles.

For accurate sediment dating, the grain size should be uniform throughout the core; the depositional rate; and the marker undisturbed by physical or chemical processes following deposition or during coring operation. Sediment cores that are collected in high energy areas where the upper sediments are physically mixed by wind, waves, currents or navigational activities generally will not have an undisturbed or preserved ^{137}Cs record. Sediments that are primarily composed on sand-sized sediments usually do not have reliable ^{137}Cs records.

The determination of the exact location of the 1954 horizon is often difficult. There were much smaller amounts of ^{137}Cs deposited in 1954 than in the peak years of atmospheric testing, 1961-1963. More than one half-life has now passed since 1954, and this would reduce the amount of ^{137}Cs present by more than 50 percent, due to radioactive decay.

Table 2. Mean, Minimum, and Maximum Values or Air Dried Loss, Unit Density and Carbon in Sediment Cores Collected in This Study Compared to Results From Cores Collected in Spring 2002

This Study	*Air Dried Loss (%)*	*Wet Density (g/cm^3)*	*Dry Density (g/cm^3)*	*Total Carbon (%)*	*Inorganic Carbon (%)*	*Organic Carbon (%)*
Mean	37.4	1.47	1.12	3.62	1.24	2.38
Minimum	14.0	1.14	0.78	0.75	0.09	0.03
Maximum	54.7	2.14	1.91	6.46	3.39	5.89
n	89	48	48	89	89	89
Spring 2002 Cores*						
Mean	44.6			3.64	1.01	2.63
Minimum	14.7			1.32	0.07	0.26
Maximum	63.5			5.24	2.20	4.62
n	66			66	66	66

*Cores collected as part of a sediment characterization study funded by WMRC (Cahill, 2006)

Table 3. Summary of Sedimentation Rates Determined by Cesium-137 in this Study Compared to Results From Cores Collected in Spring 2002

Core ID	*This Study*	*Depth of maximum ^{137}Cs Activity (cm)*	*Depth to onset of ^{137}Cs Activity (cm)*	*1963- 2002 sedimentation rate (cm/y)*	*1954 - 2002 sedimentation rate (cm/y)*
SWS0059	Middle Goose	65	85	1.7	1.8
SWS0060	Lower Goose	25	55	0.6	1.1
SWS0061	Wightman	35	45	0.9	0.9
SWS0062	Sawyer Slough	25	55	0.6	1.1
SWS0063	Lower Meadow	15	35	0.4	0.7
SWS0064	Lower Babb's	15	26	0.4	0.5
	Spring 2002 Cores				
SWS0005	Center Goose	35	55	0.9	1.1
SWS0006	Center Wightman	35	55	0.9	1.1
SWS0007	Upper Meadow	45	65	1.2	1.3
SWS0008	Center Babb's	15	35	0.4	0.7

References

Cahill, R.A, M. Demissie, and W.C. Bogner, 1999, Characterization and Assessment of the Sediment Quality and Transport Processes in the West Branch of the Grand Calumet River in Illinois. Illinois State Geological Survey Open File Series OFS 1999-6. Springfield IL.

Cahill, R. A., G. L. Salmon, and J.A. Slowikowski, 2006, Investigation of Metal and Organic Distributions and Sedimentation Rates in Backwater Lakes along the Illinois River, Final Contract Report to Illinois Waste Management and Research Center. (in review)

United States Environmental Protection Agency, 2001, Methods for Collection, Storage and Manipulation of Sediments for Chemical and Toxicological analyses: Technical Manual, EPA-823-B-010002, U.S. Environmental Protection Agency, Office of Water, Washington, DC.

Appendix 1. Core ID, Air Dried Loss, Wet and Dry Density, Total Carbon, Inorganic Carbon and Organic Carbon

Appendix 1. Air Dried Loss, Moisture Loss, Unit Weight, Total Carbon, Inorganic Carbon and Organic Carbon in Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River Collected Fall 2002

Analytical Number	Core ID	Depth Interval (cm)	Air Dried Loss (%)	Moisture Loss (%)	Wet Density (g/cm3)	Dry Density (g/cm3)	Total Carbon (%)	Inorganic Carbon (%)	Organic Carbon (%)
Middle Goose									
R23713	59-16	195-224	22.5%	1.74%	*	*	1.14	0.91	0.23
R23714	59-15	175-195	19.0%	1.36%	*	*	3.26	2.81	0.45
R23715	59-14	150-175	19.4%	1.32%	*	*	3.79	3.39	0.40
R23716	59-13	130-150	26.2%	2.56%	*	*	1.52	0.17	1.35
R23717	59-12	115-130	32.9%	2.87%	*	*	2.65	0.21	2.44
R23718	59-11	100-115	45.5%	3.11%	*	*	4.13	0.21	3.92
R23719	59-10	90-100	54.7%	3.09%	*	*	4.66	0.85	3.81
R23720	59-9	80-90	51.6%	2.97%	*	*	3.95	0.79	3.16
R23721	59-8	70-80	51.7%	3.02%	*	*	3.97	1.02	2.95
R23722	59-7	60-70	52.9%	2.74%	*	*	3.91	1.02	2.89
R23723	59-6	50-60	52.3%	3.07%	*	*	3.87	1.04	2.83
R23724	59-5	40-50	52.3%	3.01%	*	*	3.92	0.93	2.99
R23725	59-4	30-40	52.3%	3.03%	*	*	3.82	0.91	2.91
R23726	59-3	20-30	52.0%	2.67%	*	*	3.88	1.02	2.86
R23727	59-2	10-20	51.7%	2.79%	*	*	3.84	1.03	2.81
R23728	59-1	0-10	52.3%	2.92%	*	*	3.95	1.09	2.86
Lower Goose									
R24040	60-10	120-148	24.1%	0.40%	*	*	1.47	0.35	1.12
R24039	60-9	100-120	28.1%	0.28%	*	*	1.56	0.22	1.34
R24038	60-8	80-100	37.3%	0.54%	*	*	3.01	0.13	2.88
R24037	60-7	60-80	39.7%	0.81%	*	*	3.29	0.17	3.12
R24036	60-6	50-60	51.6%	0.66%	*	*	4.93	0.98	3.95
R24035	60-5	40-50	46.6%	0.56%	*	*	3.73	1.11	2.62
R24034	60-4	30-40	45.1%	0.73%	*	*	3.90	1.21	2.69
R24033	60-3	20-30	46.0%	0.89%	*	*	4.08	1.28	2.80
R24032	60-2	10-20	45.7%	1.07%	*	*	3.85	1.34	2.61
R24031	60-1	0-10	45.1%	1.37%	*	*	3.79	1.35	2.44
Wightman									
R24076	61-21	240-269	27.5%	0.29%	1.59	1.29	4.54	2.27	2.27
R24075	61-20	220-240	35.8%	0.50%	1.53	1.10	3.65	1.64	2.01
R24074	61-19	200-220	41.5%	0.63%	1.40	1.00	4.62	1.32	3.30
R24073	61-18	180-200	45.5%	0.73%	1.33	0.89	5.18	1.34	3.84
R24072	61-17	170-180	45.4%	0.72%	1.31	0.91	4.94	1.31	3.63
R24071	61-16	160-170	46.8%	0.91%	1.19	0.83	5.59	1.28	4.31
R24070	61-15	150-160	46.9%	0.93%	1.20	0.86	5.96	1.39	4.57
R24069	61-14	139-150	45.5%	1.09%	1.26	0.89	6.37	1.21	5.16
R24068	61-13	120-139	50.1%	1.00%	1.25	0.87	6.15	1.19	4.96
R24067	61-12	110-120	48.9%	0.98%	1.23	0.80	6.45	1.29	5.16
R24066	61-11	100-110	47.8%	0.96%	1.35	0.85	5.58	1.32	4.26
R24065	61-10	90-100	48.1%	1.16%	1.33	0.87	5.73	1.27	4.46
R24064	61-9	80-90	43.9%	1.01%	1.33	0.89	6.46	1.48	4.98
R24063	61-8	70-80	39.2%	0.84%	1.53	1.18	4.08	1.36	2.72
R24062	61-7	60-70	40.7%	0.72%	1.40	1.05	3.79	1.31	2.48
R24061	61-6	50-60	45.6%	0.69%	1.44	1.11	4.06	1.49	2.57
R24060	61-5	40-50	35.6%	0.78%	1.58	1.20	3.84	1.62	2.22
R24059	61-4	30-40	33.9%	0.81%	1.43	1.16	4.09	1.86	2.23
R24058	61-3	20-30	29.0%	0.62%	1.40	1.12	4.11	2.27	1.84
R24057	61-2	10-20	29.0%	0.50%	1.61	1.30	4.08	2.18	1.90
R24056	61-1	0-10	28.8%	0.54%	1.65	1.33	3.94	2.47	1.47

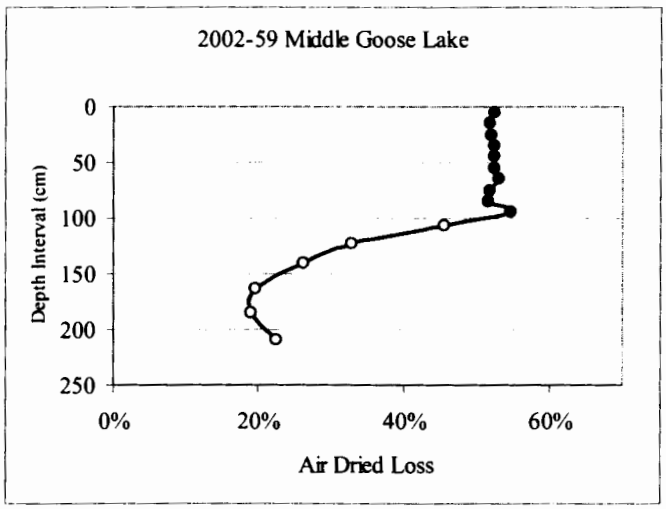
Appendix 1. (cont.)

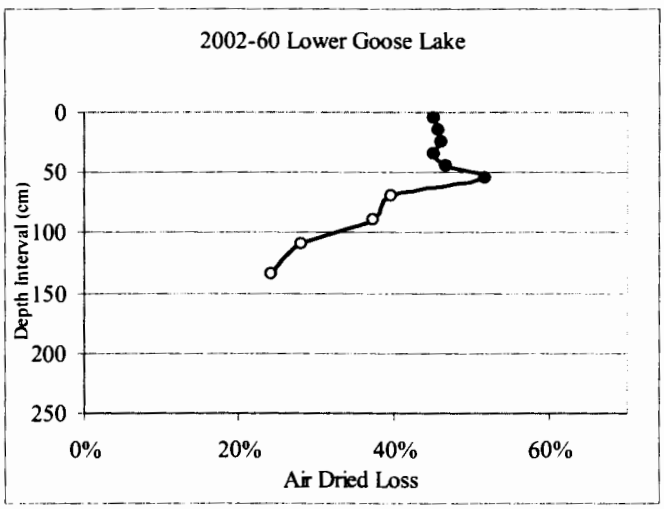
Analytical Number	Core ID	Depth Interval (cm)	Air Dried Loss (%)	Moisture Loss (%)	Wet Density (g/cm3)	Dry Density (g/cm3)	Total Carbon (%)	Inorganic Carbon (%)	Organic Carbon (%)
Sawyer Slough									
R23729	62-15	185-205	28.7%	2.31%	1.64	1.29	1.65	0.19	1.46
R23730	62-14	170-185	31.4%	2.21%	1.60	1.22	2.26	0.15	2.11
R23731	62-13	150-170	37.9%	2.35%	1.47	1.02	3.39	0.21	3.18
R23732	62-12	127-150	46.7%	2.78%	1.22	0.86	6.11	0.22	5.89
R23733	62-11	100-127	52.9%	2.20%	1.33	0.81	5.19	1.06	4.13
R23734	62-10	90-100	51.7%	1.98%	1.14	0.78	4.54	1.15	3.39
R23735	62-9	80-90	51.0%	2.17%	1.25	0.84	4.39	1.20	3.19
R23736	62-8	70-80	49.4%	2.03%	1.24	0.88	4.15	1.11	3.04
R23737	62-7	60-70	50.1%	2.11%	1.43	0.95	4.37	1.20	3.17
R23738	62-6	50-60	51.0%	2.03%	1.26	0.87	4.57	1.31	3.26
R23739	62-5	40-50	51.1%	2.04%	1.26	0.85	4.94	1.45	3.49
R23740	62-4	30-40	49.9%	1.80%	1.33	0.93	4.69	1.34	3.35
R23741	62-3	20-30	49.4%	1.95%	1.25	0.91	4.05	1.31	2.74
R23742	62-2	10-20	47.7%	2.01%	1.29	0.92	4.13	1.42	2.71
R23743	62-1	0-10	40.2%	1.43%	1.43	1.04	4.23	1.75	2.48
Lower Meadow									
R24055	63-15	190-229	24.8%	0.29%	*	*	3.04	2.20	0.84
R24054	63-14	165-190	24.1%	0.27%	*	*	3.01	2.27	0.74
R24053	63-13	140-165	25.0%	0.33%	*	*	3.13	2.07	1.06
R24052	63-12	115-140	24.8%	0.30%	*	*	3.05	2.07	0.98
R24051	63-11	100-115	25.7%	0.28%	*	*	3.16	2.19	0.97
R24050	63-10	90-100	27.0%	0.28%	*	*	3.13	2.14	0.99
R24049	63-9	80-90	27.8%	0.22%	*	*	3.04	2.00	1.04
R24048	63-8	70-80	27.5%	0.17%	*	*	3.12	2.07	1.05
R24047	63-7	60-70	27.8%	0.27%	*	*	2.99	1.69	1.40
R24046	63-6	50-60	28.7%	0.08%	*	*	2.95	1.47	1.48
R24045	63-5	40-50	31.4%	0.10%	*	*	3.06	1.06	2.00
R24044	63-4	30-40	33.4%	0.25%	*	*	3.19	0.76	2.43
R24043	63-3	20-30	36.7%	0.20%	*	*	3.57	0.79	2.78
R24042	63-2	10-20	38.9%	0.43%	*	*	3.34	1.39	1.95
R24041	63-1	0-10	44.2%	0.31%	*	*	3.85	1.66	2.19
Babbs Slough									
R24150	64-12	220-235	20.1%	0.44%	1.70	1.41	1.99	1.27	0.72
R24149	64-11	200-220	17.7%	0.18%	1.73	1.50	2.14	1.82	0.32
R24148	64-10	173-197	17.5%	0.15%	1.89	1.65	2.92	2.68	0.24
R24147	64-9	162-173	14.4%	0.07%	2.14	1.91	1.18	1.15	0.03
R24146	64-8	140-162	14.0%	0.07%	1.89	1.70	1.43	1.25	0.18
R24145	64-7	117-140	15.1%	0.14%	1.70	1.51	1.05	0.78	0.27
R24144	64-6	65-117	14.9%	0.15%	1.58	1.40	0.95	0.76	0.19
R24143	64-5	45-65	15.8%	0.27%	1.97	1.75	0.89	0.51	0.38
R24142	64-4	35-45	17.4%	0.49%	1.78	1.58	0.75	0.18	0.57
R24141	64-3	20-33	20.9%	0.54%	1.67	1.46	1.00	0.09	0.91
R24140	64-2	10-20	27.8%	0.77%	1.62	1.30	1.54	0.13	1.41
R24139	64-1	0-10	41.5%	1.13%	1.40	1.09	3.18	0.56	2.62

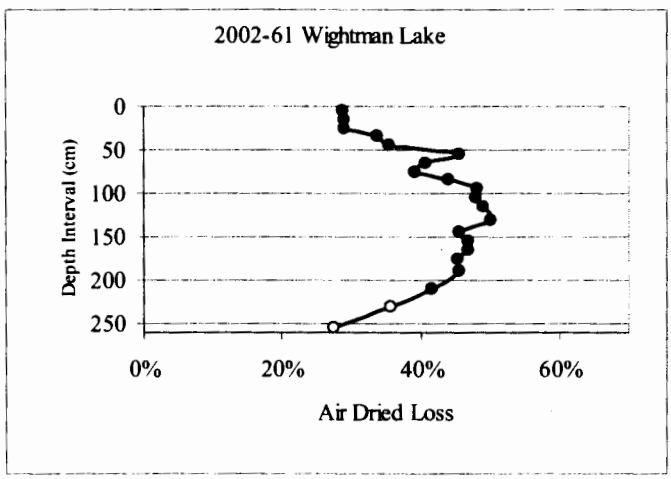
* Unit Weight Not Determined on these samples

Appendix 2. Plots of Air Dried Loss, Wet and Dry Density, and Inorganic Carbon and Organic Carbon

Percent Air Dried Loss in Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River Collected Fall 2002

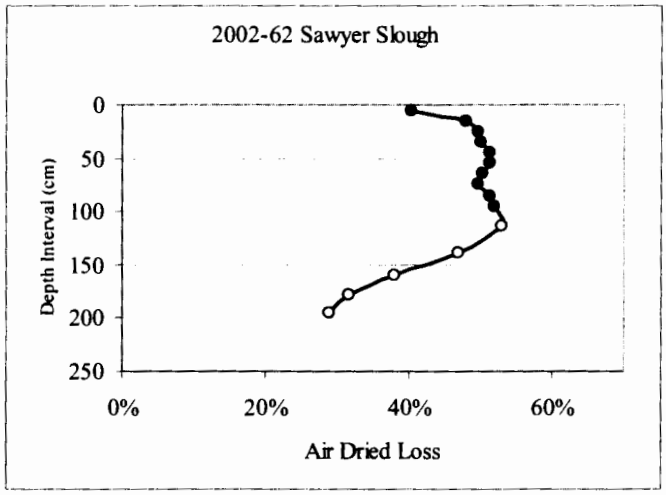


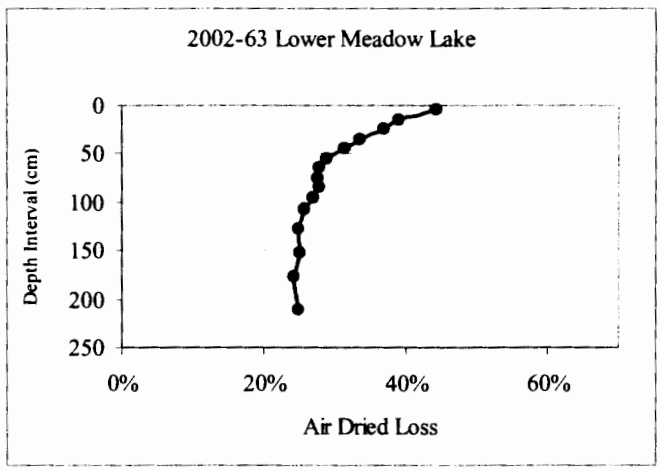


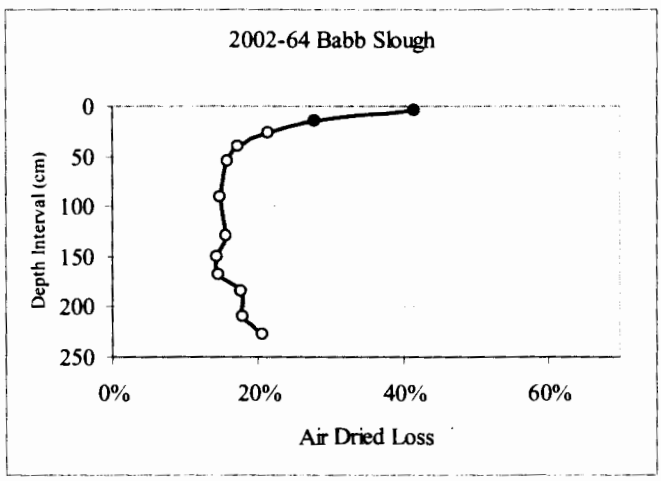


Closed Circles = Silt-Clay Lake Sediments
Open Circles = Other Materials

Percent Air Dried Loss in Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River collected Fall 2002 (concl.)

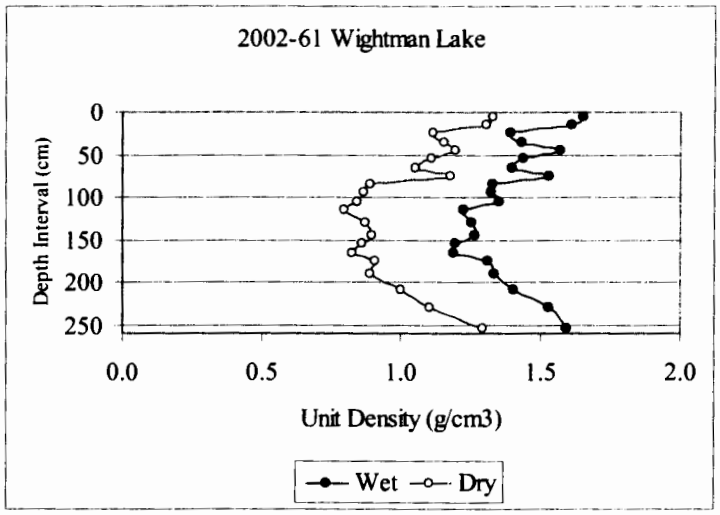


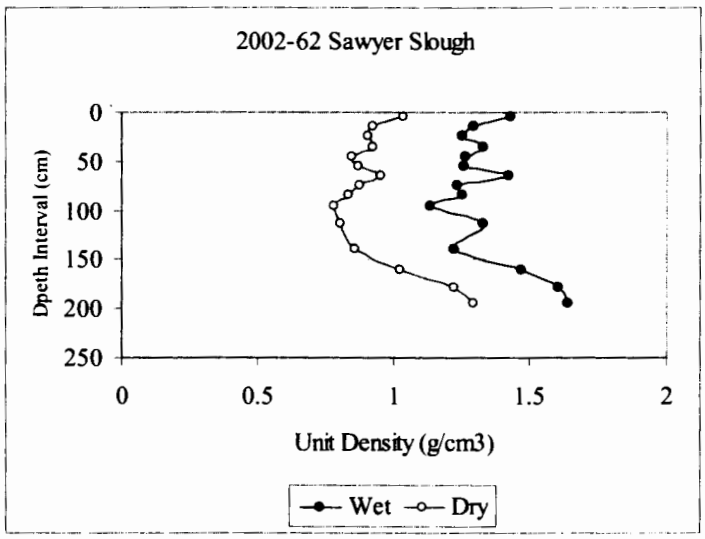


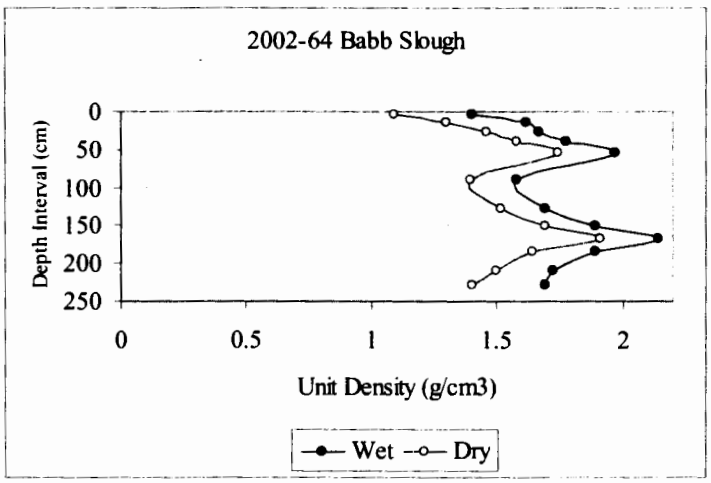


Closed Circles = Silt-Clay Lake Sediments
Open Circles = Other Materials

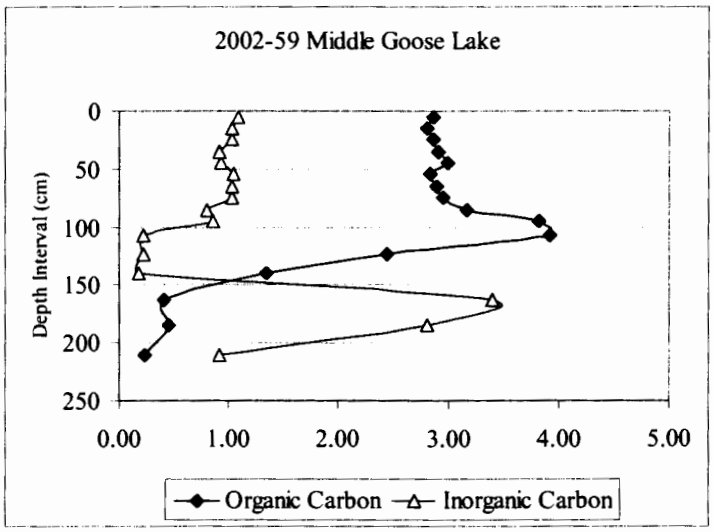
Unit Weight of Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River Collected Fall 2002

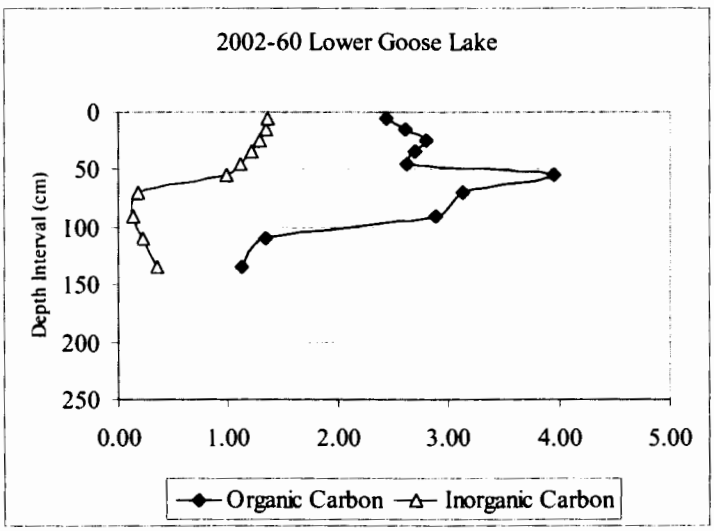


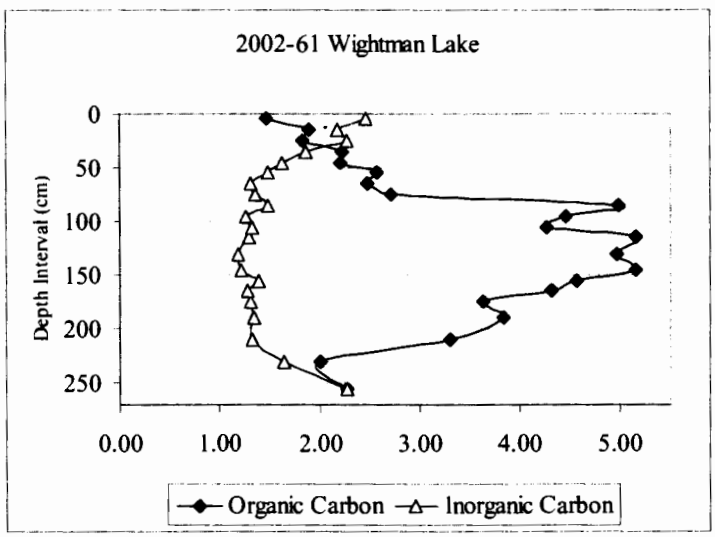




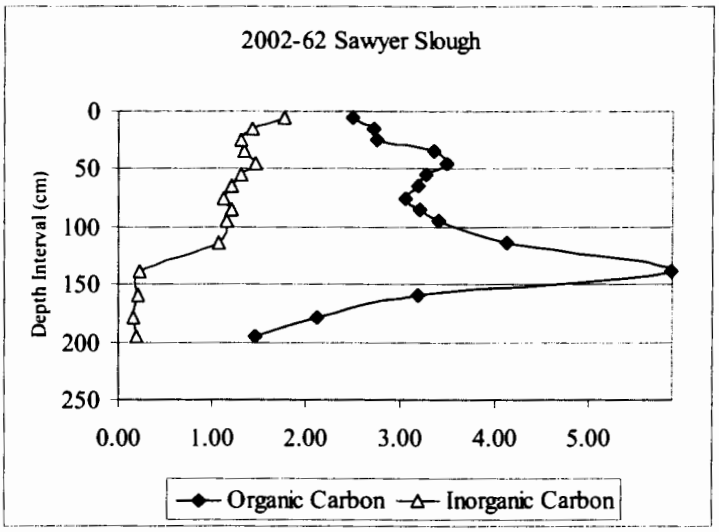
Inorganic Carbon and Organic Carbon Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River Collected Fall 2002

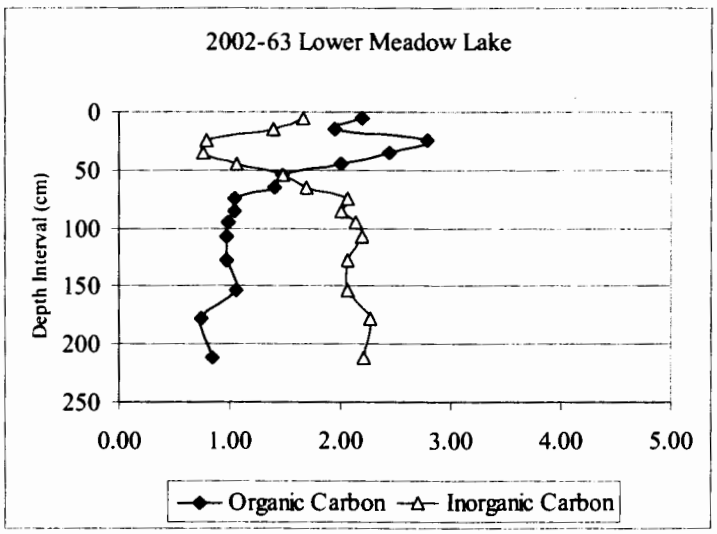


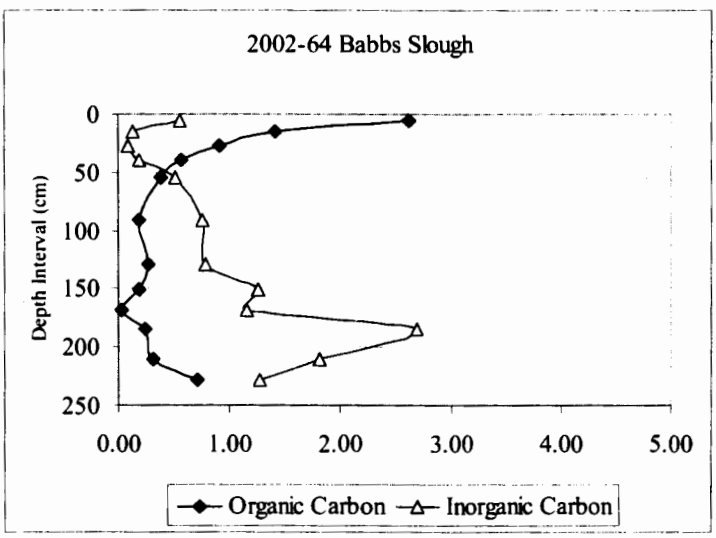




Inorganic Carbon and Organic Carbon Sediment Cores from Backwater Lakes, Middle Peoria Pool, Illinois River Collected Fall 2002 (concl.)







Appendix 3. Particle Size Results

SEDIMENT LABORATORY SAMPLE DELIVERY INFORMATION

PROJECT NAME: NESPII ILLINOIS RIVER

ANALYSIS TYPE: PARTICLE SIZE DISTRIBUTION. (See ISWS-CWS Sediment Laboratory 2006 Price List).

Item(5) SAND (Particle-size distribution by full class(1) and (2) >0.063 mm,plus sand break).

Item(6) FINES

a. ORGANIC REMOVAL BY BLEACH (Sodium hypochlorite).

b. SAND BREAK (sand/fines split).

c. PIPETTE ANALYSIS (particle -size distribution by full class (3) < 0.063mm)

LAB JOB NUMBER: PS JOB 62

DATE TO LAB: 6/26/2006

COLLECT DATE: 9 / 24, 25 / 2002

COLLECTED BY: JIM SLOWIKOWSKI

TOTAL SAMPLES: 12 BAGS (12 F/S, 12 ORGANIC REMOVAL, 11 PIPETTE ANALYSIS, 3 SONIC AUTO SIEVE, 2 DRY SIEVE)

START DATE: 6/28/2006

COMPLETION DATE: 7/26/2006

RELINQUISHED BY: JIM SLOWIKOWSKI

ANALYSIS BY: YI HAN

REMARKS:

ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 62 (sample# 1)

ID: sws 61-4

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006
START DATE:	6/28/2006	*COMPLETED DATE:*	7/25/2006		

SAMPLER: Jim Slowikowski

ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	64.2000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1				0.0200	0.0200	0.000	0.03%		99.97%
25	Coarse Sand		0.5	0.71				0.0120	0.0320	0.000	0.05%		99.95%
35			1	0.5				0.0200	0.0520	0.000	0.08%		99.92%
45	Med. Sand		1.5	0.355				0.0000	0.0520	0.000	0.08%		99.92%
60			2	0.25				0.0758	0.1278	0.001	0.20%		99.80%
80	Fine Sand		2.5	0.18				0.0535	0.1813	0.001	0.28%		99.72%
120			3	0.12				0.5769	0.7582	0.009	1.18%		98.82%
170	Very Fine Sand		3.5	0.09				2.9268	3.6848	0.046	5.74%		94.26%
230			4	0.063				5.9917	9.6765	0.093	15.07%		84.93%
PAN				<0.063				1.5200	11.2	0.024	17%		83%

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
1	Coarse Silt	4.01	0.062	28"	21	1.8969	1.8057	0.0912	0.0113	0.0799	3.8580	78.22
2		5	0.031	1'52"	21	1.9318	1.8572	0.0746	0.0113	0.0633	3.0585	61.97
3	Med. Silt	6	0.0156	7'29"	21	1.8863	1.8263	0.0600	0.0113	0.0487	2.3515	47.67
4	Fine Silt	7	0.0078	29'28"	21	1.8513	1.7989	0.0524	0.0113	0.0411	1.9845	40.23
5	V. Fine Silt	8	0.0039	59'50"	21	1.9001	1.8544	0.0457	0.0113	0.0344	1.6610	33.68
6	Clay	9	0.002	4hr	21	1.8267	1.7877	0.0390	0.0113	0.0277	1.3375	27.12

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):	64.2	Fine < 0.063 mm (g):	53.2	Sand > 0.062 mm (g):	11.0
Test split w (g):		Factor:			

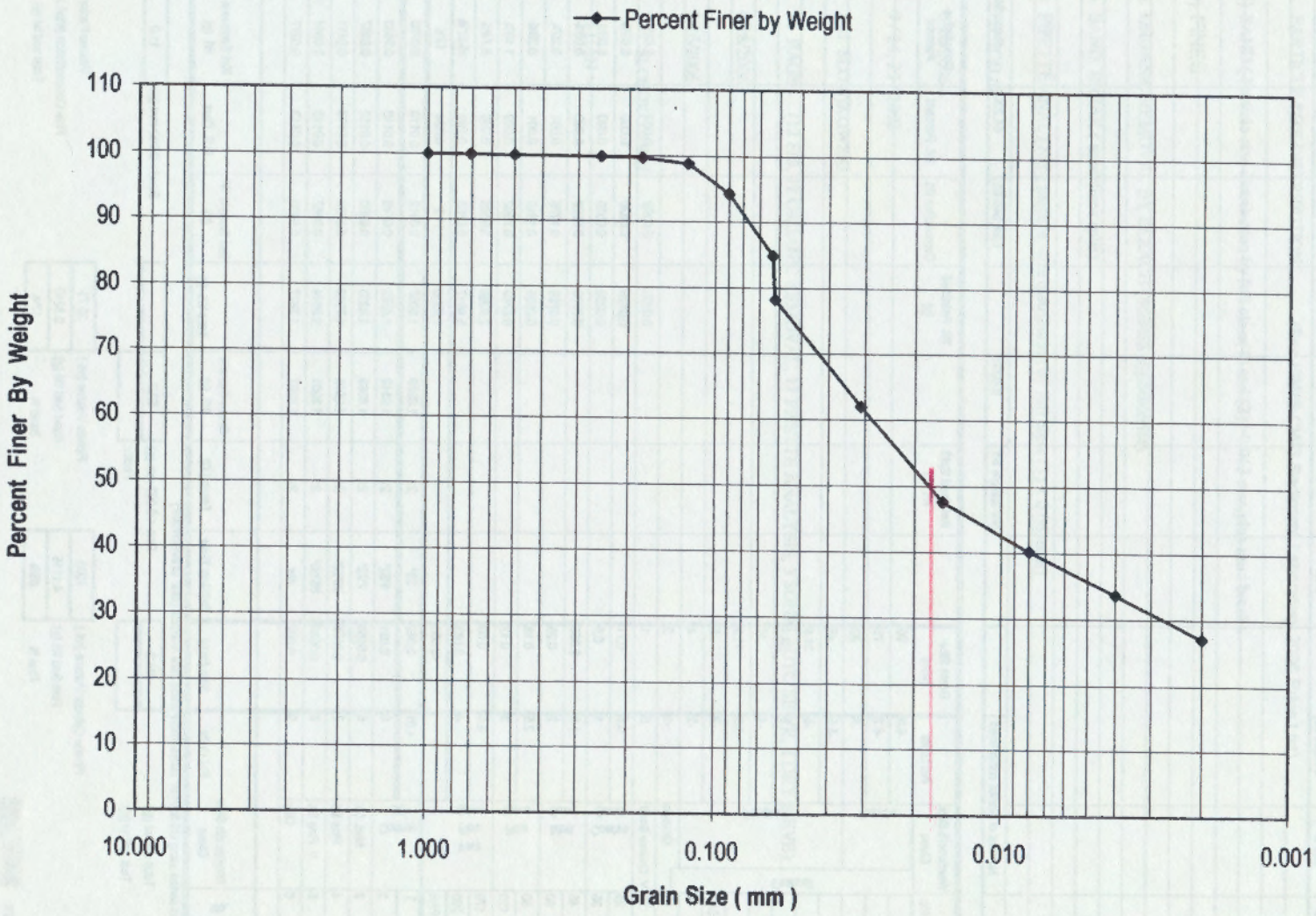
Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2958
Fine Sed Wt (g):	4.1115	Sand Sed Wt (g):	0.8210	Fine Concentration (mg/L):	4111.50
Fine %	83%	Sand %	17%	Total sed wt (g):	4.9325

NOTES: Chk1.1

Particle Size Distribution

Chart 1

Project: NESP II, IL River Sample ID:SWS 61 - 4



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 2)

ID: swa 61 - 10

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006
START DATE:	6/28/2006	*COMPLETED DATE:*	7/19/2006		

SAMPLER: Jim Slowikowski

ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28'	21	1.9359	1.8250	0.1109	0.0113	0.0996	4.8093	97.94

PS BY PIPETTE METHOD

2	Coarse Silt	5	0.031	1'52"	21	1.8965	1.7916	0.1049	0.0113	0.0936	4.5196	92.04
3	Med. Silt	6	0.0156	7'29"	21	1.8936	1.7986	0.0950	0.0113	0.0837	4.0415	82.30
4	Fine Silt	7	0.0078	29'26"	21	1.8975	1.8136	0.0839	0.0113	0.0726	3.5055	71.39
5	V. Fine Silt	8	0.0039	59'50"	21	1.8963	1.8217	0.0746	0.0113	0.0633	3.0565	62.24
6	Clay	9	0.002	4hr	21	1.8700	1.8089	0.0611	0.0113	0.0498	2.4046	48.97

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

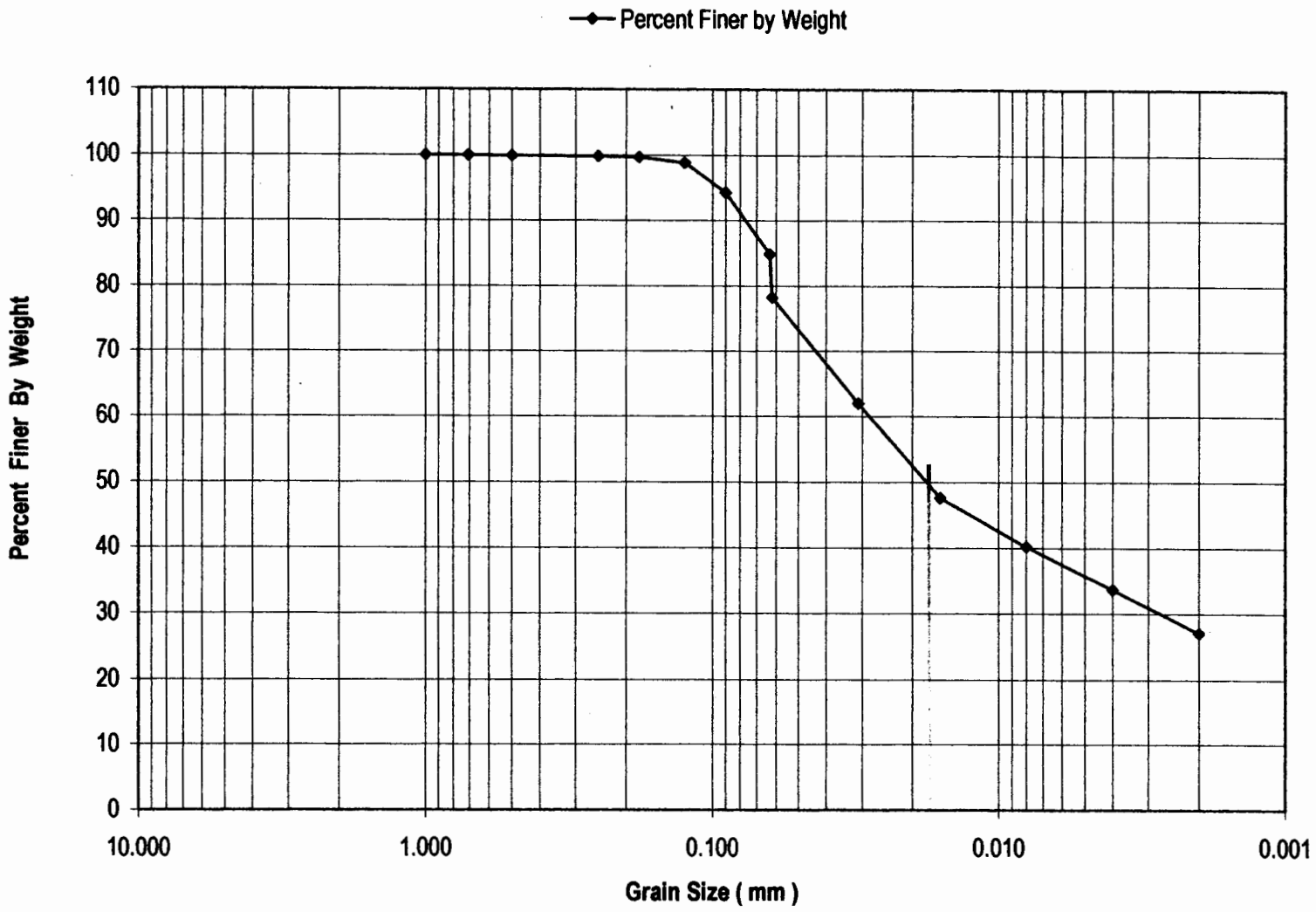
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):		
Test split w (g):		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2958
Fine Sed Wt (g):	4.8103	Sand Sed Wt (g):	0.1002	Fine Concentration (mg/L):	4810.30
Fine %	97.96%	Sand %	2.04%	Total sed wt (g):	4.9105

NOTES: Client 2

Particle Size Distribution **Chart 1**

Project: NESP II, IL River Sample ID:SWS 61 - 4



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 2)

ID: sws 61 - 10

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006
START DATE:	6/28/2006	*COMPLETED DATE:*	7/19/2006	*SAMPLER:*	Jim Slowikowski
				ANALYSIS BY:	Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel: Cobble	-6.5	90									
*	Gravel: Cobble	-6.2	75									
*	Gravel: Cobble	-6	63									
*	Gravel: Pebble	-5.5	45									
*	Gravel: Pebble	-5	31.5									
*	Gravel: Pebble	-4.5	22.4									
*	Gravel: Pebble	-4	16									
*	Gravel: Pebble	-3.5	11.2									
5/6*	Gravel: Pebble	-3	8									
5	Gravel: Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									
1	Coarse Silt	4.01	0.062	26"	21	1.9359	1.8250	0.1109	0.0113	0.0996	4.8093	97.94

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*
2	Med. Silt	5	0.031	1'52"	21	1.8965	1.7916	0.1049	0.0113	0.0936	4.5198	92.04
3	Med. Silt	6	0.0156	7'29"	21	1.8936	1.7986	0.0950	0.0113	0.0837	4.0415	82.30
4	Fine Silt	7	0.0078	29'28"	21	1.8975	1.8136	0.0839	0.0113	0.0726	3.5055	71.39
5	V. Fine Silt	8	0.0039	59'50"	21	1.8963	1.8217	0.0746	0.0113	0.0633	3.0565	62.24
6	Clay	9	0.002	4hr	21	1.8700	1.8089	0.0611	0.0113	0.0498	2.4046	48.97

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):		
Test split w (g)t:		Factor:					

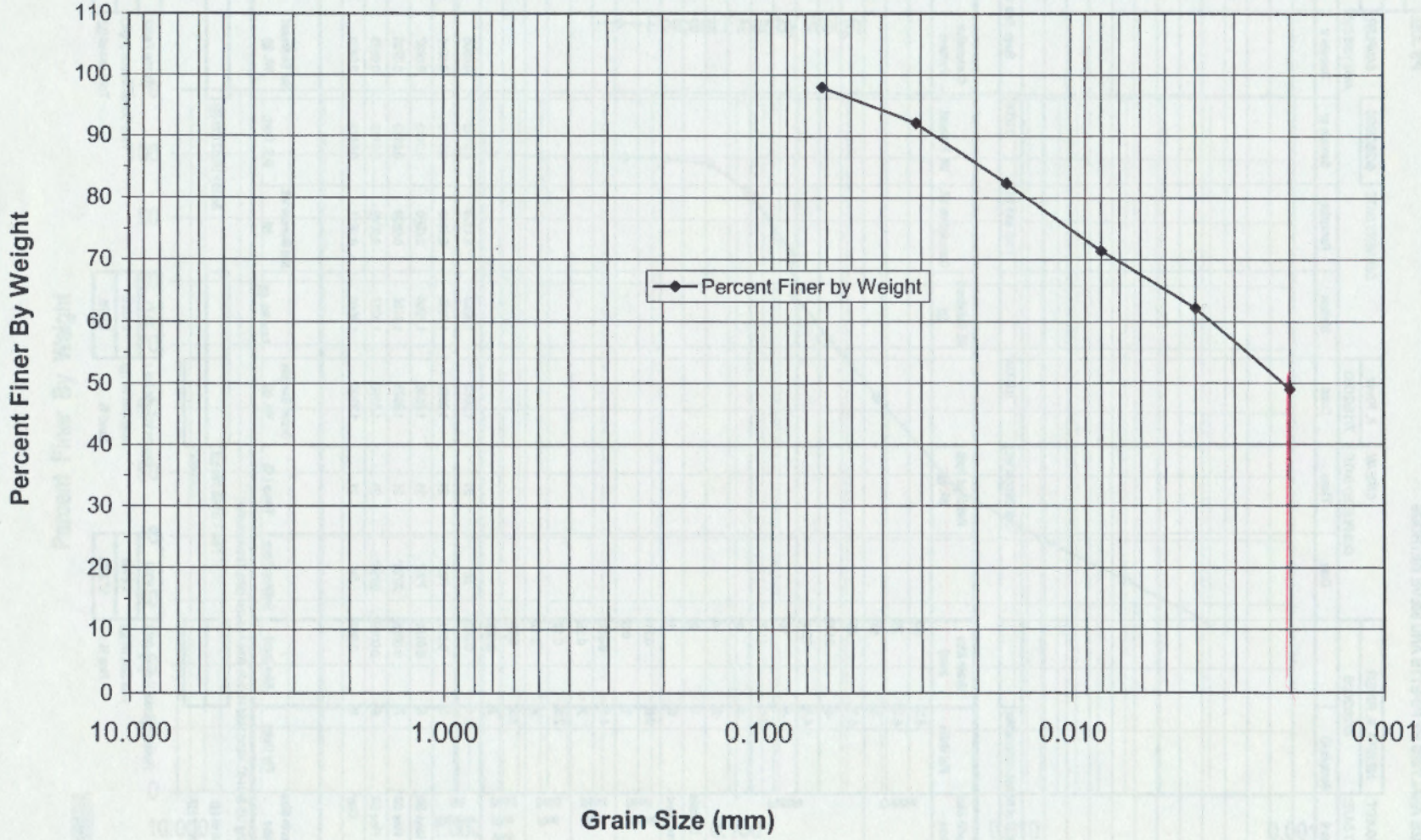
Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71		Volume Factor:	48.2858	
Fine Sed Wt (g):	4.8103	Sand Sed Wt (g):	0.1002		Fine Concentration (mg/L):	4810.30	
Fine %	97.96%	Sand %	2.04%		Total sed wt (g):	4.9105	

NOTES: Check

Particle Size Distribution

Chart 2

Project: NESP II,IL River. Sample ID: SWS 61 - 10



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 3)

ID: sws 61-17

PROJECT: NESP II, IL RIVER | *STREAM:* IL River | *DELIVERY DATE:* 6/26/2006 | *SAMPLER:* Jim Slowikowski

START DATE: 6/28/2006 | *COMPLETED DATE:* 7/19/2006 | *ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28'	21	1.9419	1.8292	0.1127	0.0113	0.1014	4.8962	99.92

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Coarse Silt	5	0.031	1'52"	21	1.8960	1.7853	0.1107	0.0113	0.0994	4.7996	97.95
3	Med. Silt	6	0.0156	7'29"	21	1.9080	1.8080	0.1000	0.0113	0.0887	4.2830	87.41
4	Fine Silt	7	0.0078	29'26"	21	1.9084	1.8213	0.0871	0.0113	0.0758	3.6601	74.70
5	V. Fine Silt	8	0.0039	59'50"	21	1.8685	1.7929	0.0756	0.0113	0.0643	3.1048	63.36
6	Clay	9	0.002	4hr	21	1.8730	1.8095	0.0635	0.0113	0.0522	2.5205	51.44

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g): | Test split w (g)t: | Fine < 0.063 mm (g): | Factor: | Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL): 1000 | Fine Sed Wt (g): 4.8776 | Fine %: 99.54

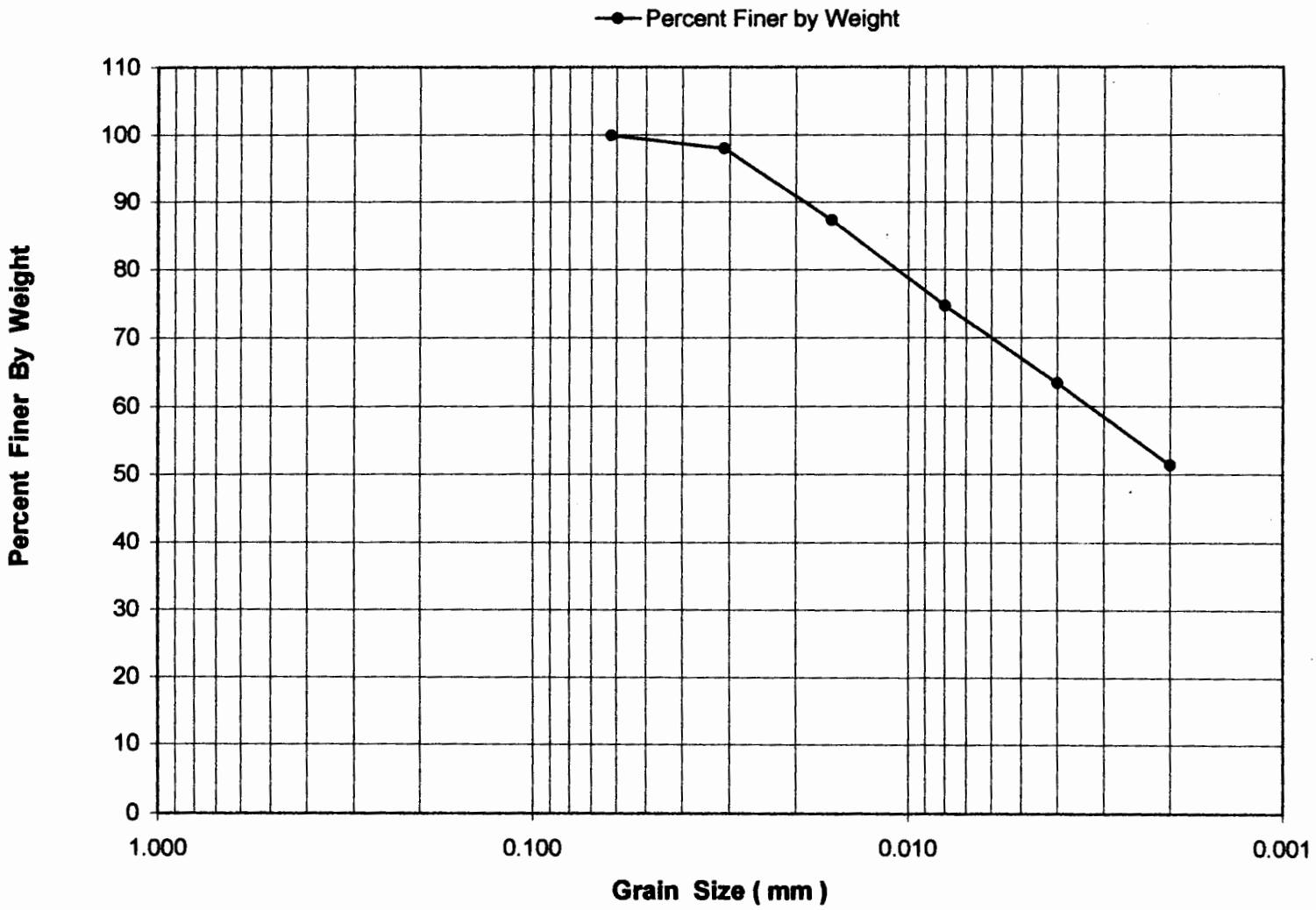
Pipette Volume (mL): 20.71 | Sand Sed Wt (g): 0.0224 | Sand %: 0.46%

Volume Factor: 48.2858 | Fine Concentration (mg/L): 4877.60 | Total sed wt (g): 4.9

NOTES: Clay 3

Particle Size Distribution **Chart 3**

Project: NESP II,IL River. Sample ID: SWS 61 - 17



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 4)

ID: sws 61-19

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	7/19/2006		*ANALYSIS BY:* YI Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% *Finer*
*	Gravel / Cobble	-6.5	90									
*	Gravel / Cobble	-6.2	75									
*	Gravel / Cobble	-6	63									
*	Gravel / Pebble	-5.5	45									
*	Gravel / Pebble	-5	31.5									
*	Gravel / Pebble	-4.5	22.4									
*	Gravel / Pebble	-4	16									
*	Gravel / Pebble	-3.5	11.2									
5/6*	Gravel / Pebble	-3	8									
5	Gravel / Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									

PS BY PIPETTE METHOD

1	Coarse Silt	4.01	0.062	28*	21	1.9532	1.8436	0.1096	0.0113	0.0983	4.7465	97.26
2	Coarse Silt	5	0.031	1'52*	21	1.9523	1.8469	0.1054	0.0113	0.0941	4.5437	93.11
3	Med. Silt	6	0.0156	7'29*	21	1.9222	1.8297	0.0925	0.0113	0.0812	3.9208	80.34
4	Fine Silt	7	0.0078	29'28*	21	1.9098	1.8285	0.0813	0.0113	0.0700	3.3800	69.26
5	V. Fine Silt	8	0.0039	59'50*	21	1.9040	1.8326	0.0714	0.0113	0.0601	2.9020	59.47
6	Clay	9	0.002	4hr	21	1.8562	1.7939	0.0623	0.0113	0.0510	2.4626	50.46

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% *Finer*

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):

Test split w (g)t:

Fine < 0.063 mm (g):

Factor:

Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	4.7547	Sand Sed Wt (g):	0.1253	Fine Concentration (mg/L):	4754.70
Fine %	97.43%	Sand %	2.57%	Total sed wt (g):	4.88

NOTES: Class 4

Particle Size Distribution **Chart 4**

Project: NESP II,IL River. Sample ID: SWS 61-19

ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 5)

ID: sws 62-3

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	7/19/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel: Cobble	-6.5	90									
*	Gravel: Cobble	-6.2	75									
*	Gravel: Cobble	-6	63									
*	Gravel: Pebble	-5.5	45									
*	Gravel: Pebble	-5	31.5									
*	Gravel: Pebble	-4.5	22.4									
*	Gravel: Pebble	-4	16									
*	Gravel: Pebble	-3.5	11.2									
5/6"	Gravel: Pebble	-3	8									
5	Gravel: Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									
1	Coarse Silt	4.01	0.062	28'	21	1.9315	1.8161	0.1134	0.0113	0.1021	4.9300	100

PS BY PIPETTE METHOD

2	Coarse Silt	5	0.031	1'52"	21	1.9518	1.8402	0.1116	0.0113	0.1003	4.8431	98.47
3	Med. Silt	6	0.0156	7'29"	21	1.9089	1.8061	0.1028	0.0113	0.0915	4.4182	89.83
4	Fine Silt	7	0.0078	29'26"	21	1.9733	1.8853	0.0880	0.0113	0.0767	3.7035	75.30
5	V. Fine Silt	8	0.0039	59'50"	21	1.9200	1.8442	0.0758	0.0113	0.0645	3.1144	63.32
6	Clay	9	0.002	4hr	21	1.8792	1.8146	0.0646	0.0113	0.0533	2.5736	52.33
Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

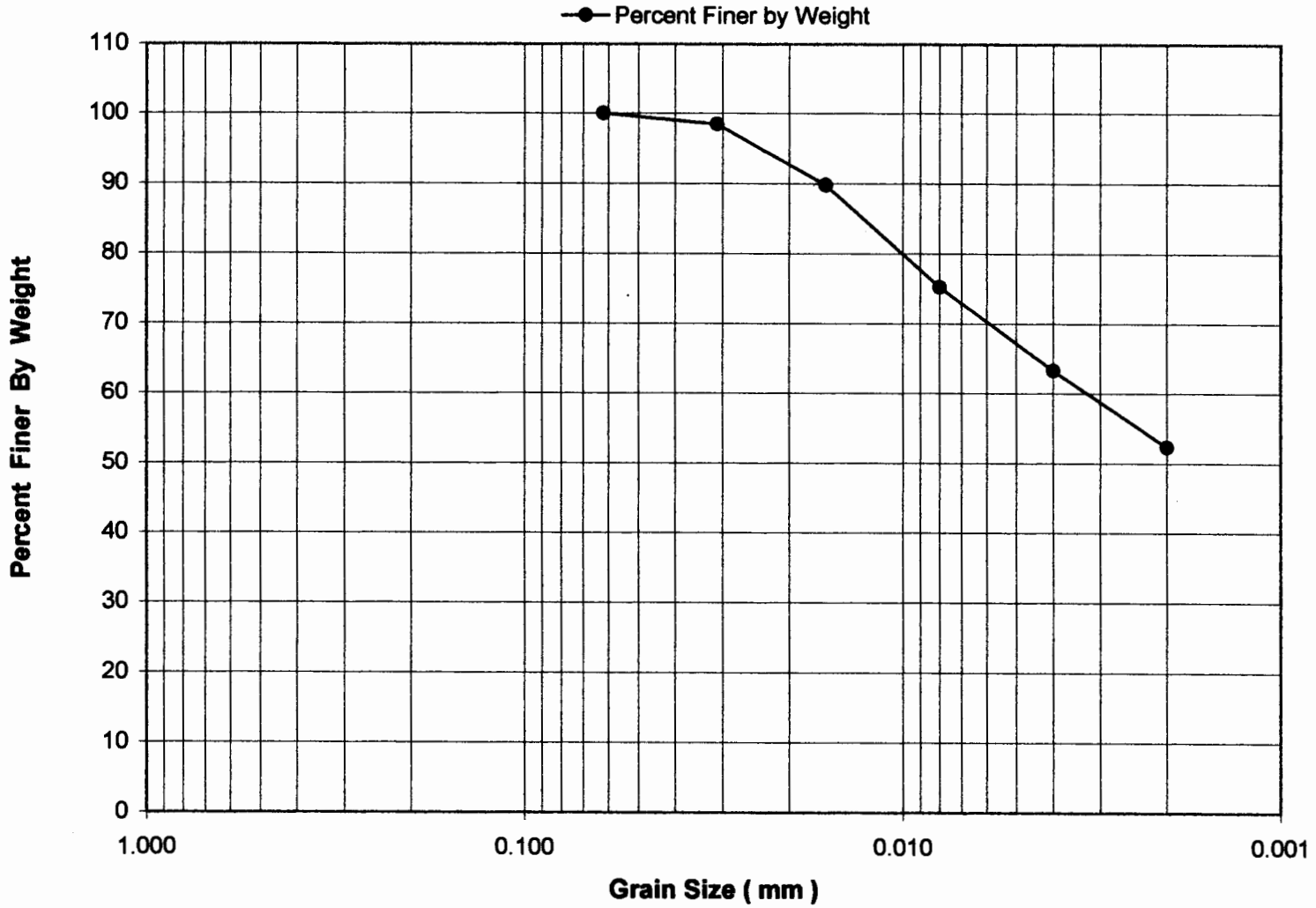
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):		
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	4.9060	Sand Sed Wt (g):	0.0125	Fine Concentration (mg/L):	4906.00
Fine %	99.75%	Sand %	0.25%	Total sed wt (g):	4.9185

NOTES: Dark

Particle Size Distribution **Chart 5**

Project: NESP II,IL River. Sample ID:SWS 62-3



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 6)

ID: sws 62-7

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006
START DATE:	6/28/2006	*COMPLETED DATE:*	7/26/2006		

SAMPLER: Jim Slowikowski

ANALYSIS BY: YI Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
6										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10		Granule	-1	2									
18		V. Coarse Sand	0	1									
25		Coarse Sand	0.5	0.71									
35			1	0.5									
45		Med. Sand	1.5	0.355									
60			2	0.25									
80		Fine Sand	2.5	0.18									
120			3	0.12									
170		Very Fine Sand	3.5	0.09									
230			4	0.063									

PS BY PIPETTE METHOD

1	Coarse Silt	4.01	0.062	28*	21	1.9734	1.8579	0.1155	0.0113	0.1042	5.0314	100
2		5	0.031	1'52*	21	1.9698	1.8545	0.1153	0.0113	0.1040	5.0217	100
3	Med. Silt	6	0.0156	7'29*	21	1.9135	1.8029	0.1106	0.0113	0.0993	4.7948	95.9
4	Fine Silt	7	0.0078	29'28*	21	1.9037	1.8020	0.1017	0.0113	0.0904	4.3650	87.3
5	V. Fine Silt	8	0.0039	59'50*	21	1.9165	1.8254	0.0911	0.0113	0.0798	3.8532	77.1
6	Clay	9	0.002	4hr	21	1.8950	1.8179	0.0771	0.0113	0.0658	3.1772	63.5

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

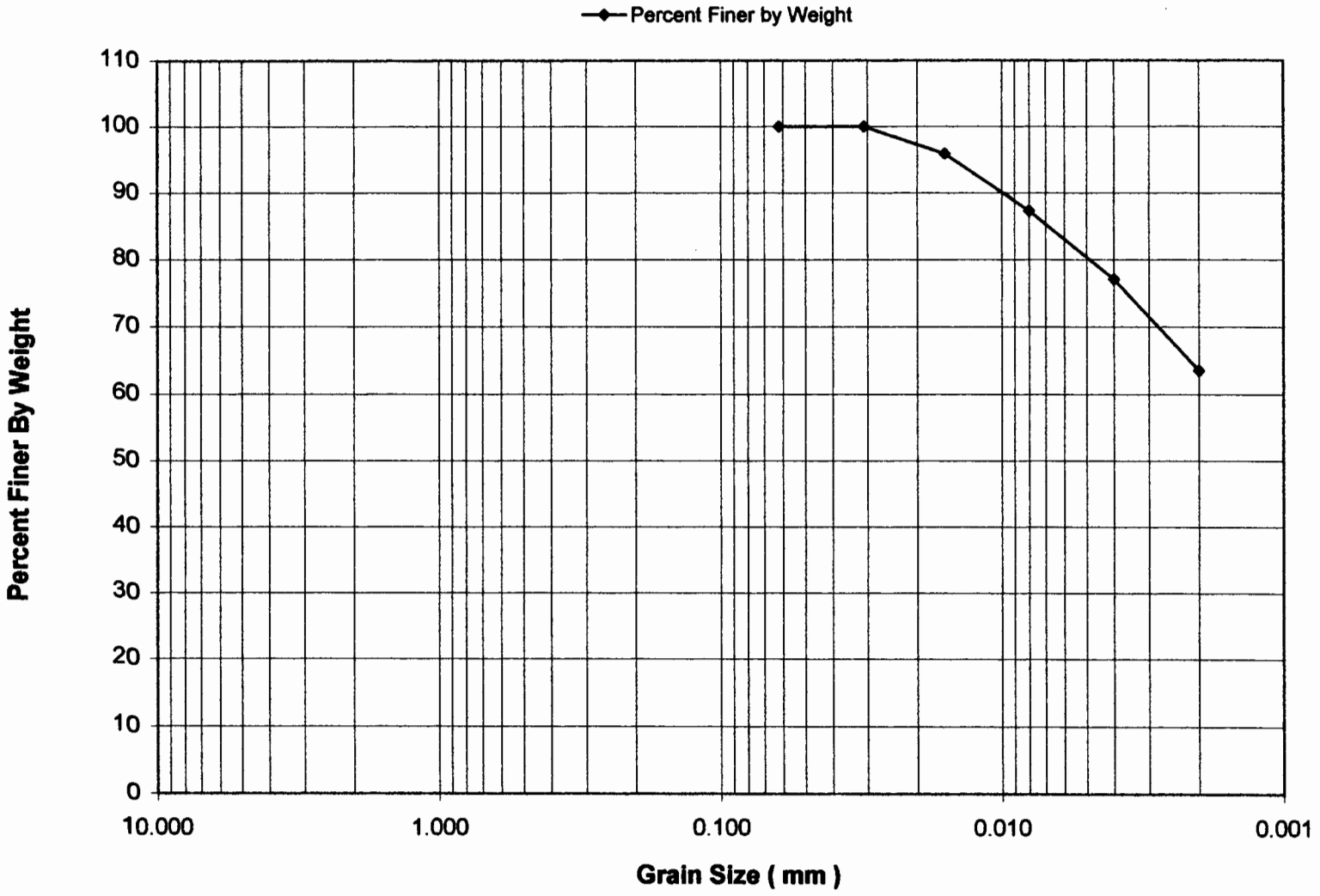
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):		
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	4.9963	Sand Sed Wt (g):	0.0037	Fine Concentration (mg/L):	4996.30
Fine %	99.93%	Sand %	0.07%	Total sed wt (g):	5

NOTES: Clay 6

Particle Size Distribution **Chart 6**

Project: NESP II,IL River Sample ID:SWS 62 - 7



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS J06 62 (sample# 7)

ID: sws 62-12

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	7/21/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28"	21	1.9718	1.8606	0.1112	0.0113	0.0999	4.8236	100

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*
2	Med. Silt	5	0.031	1'52"	21	1.9369	1.8268	0.1101	0.0113	0.0988	4.7708	99.26
3	Fine Silt	6	0.0156	7'29"	21	1.9257	1.8208	0.1049	0.0113	0.0936	4.5196	94.04
4	V. Fine Silt	7	0.0078	29'28"	21	1.9366	1.8398	0.0968	0.0113	0.0855	4.1284	85.90
5	Clay	8	0.0039	59'50"	21	1.9122	1.8246	0.0876	0.0113	0.0763	3.6842	76.66
6		9	0.002	4hr	21	1.9137	1.8383	0.0754	0.0113	0.0641	3.0951	64.40

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

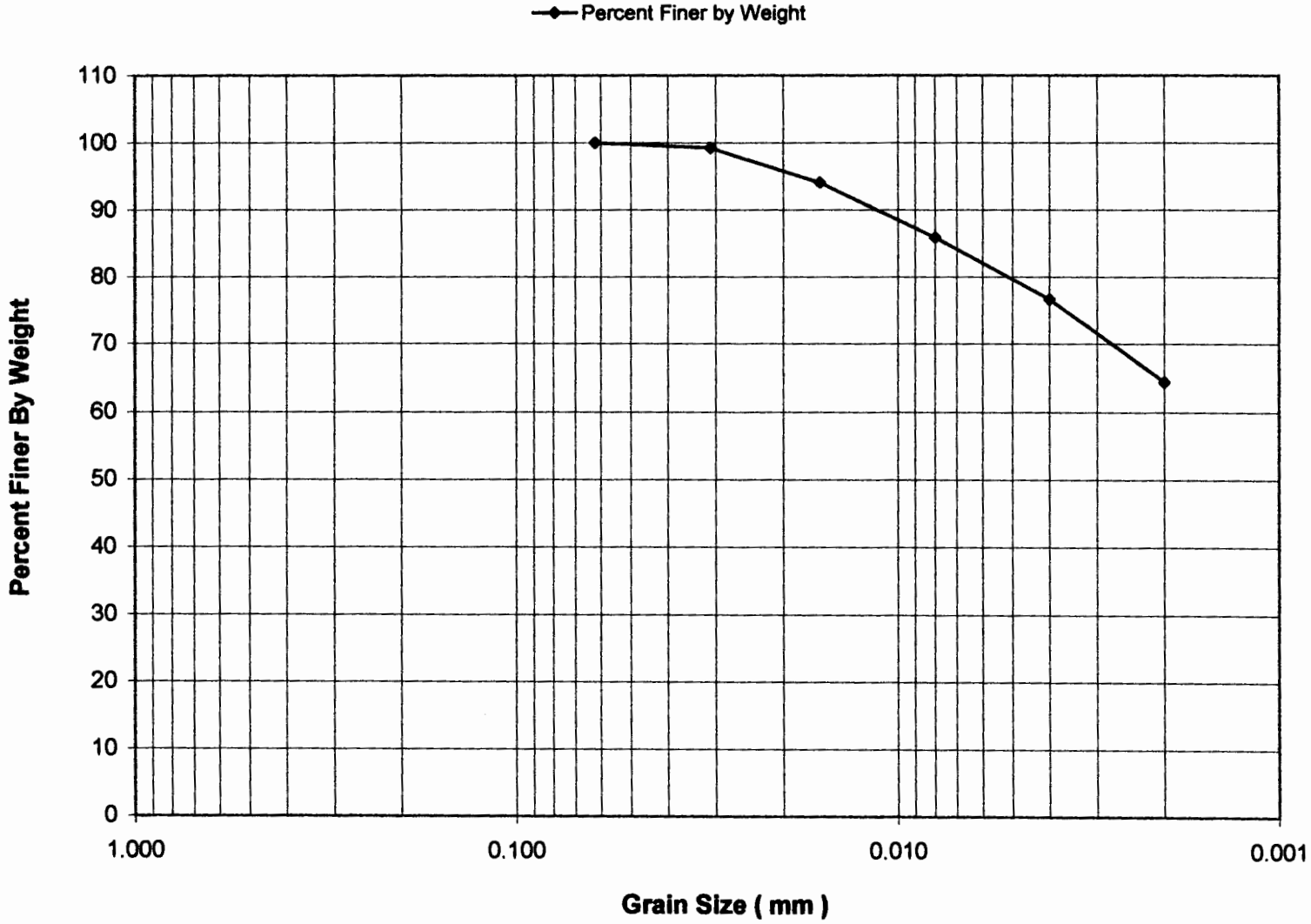
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):	
Test split w (g):		Factor:				

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2868
Fine Sed Wt (g):	4.7765	Sand Sed Wt (g):	0.0295	Fine Concentration (mg/L):	4776.50
Fine %	99.39%	Sand %	0.61%	Total sed wt (g):	4.806

NOTES: Chk17

Particle Size Distribution **Chart 7**

Project: NESP II,IL River Sample ID:SWS 62 - 12



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 8)

ID: sws 62-14

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	7/21/2006			*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28*	21	1.8866	1.7762	0.1104	0.0113	0.0991	4.7851	99.86

PS BY PIPETTE METHOD

2	Coarse Silt	5	0.031	1'52"	21	1.9925	1.8848	0.1077	0.0113	0.0964	4.6548	97.14
3	Med. Silt	6	0.0156	7'29"	21	1.9305	1.8343	0.0962	0.0113	0.0849	4.0995	85.55
4	Fine Silt	7	0.0078	29'28"	21	1.9123	1.8286	0.0838	0.0113	0.0725	3.5007	73.05
5	V. Fine Silt	8	0.0039	59'50"	21	1.9842	1.9110	0.0732	0.0113	0.0619	2.9889	62.37
6	Clay	9	0.002	4hr	21	1.9178	1.8542	0.0636	0.0113	0.0523	2.5253	52.70

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

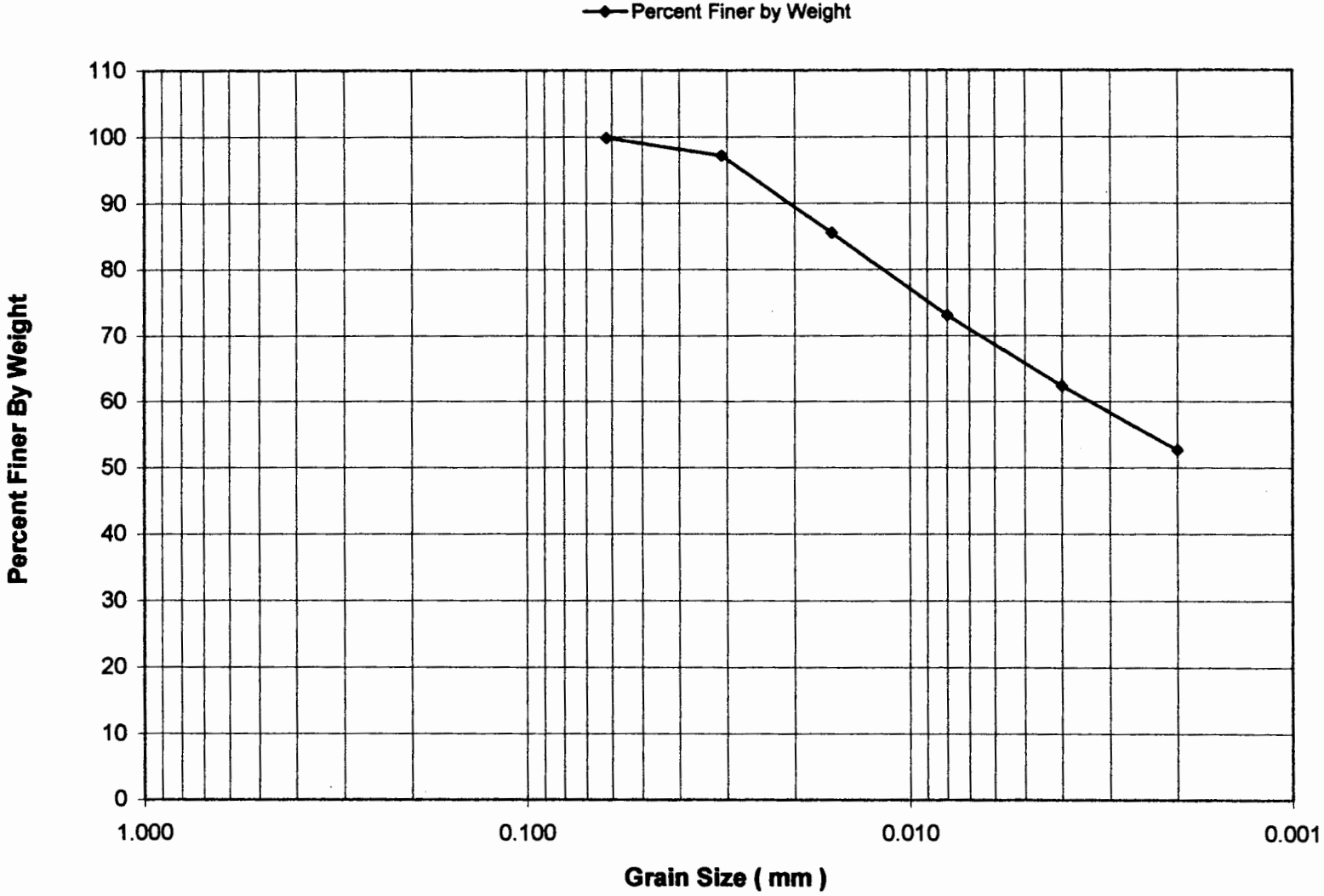
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):		
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	4.7405	Sand Sed Wt (g):	0.0515	Fine Concentration (mg/L):	4740.50
Fine %	98.93%	Sand %	1.07%	Total sed wt (g):	4.792

NOTES: Clean C

Particle Size Distribution **Chart 8**

Project: NESP II,IL River Sample ID: SWS 62 -14



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 9)

ID: sws 64-3

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	7/25/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	41.9000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1				0.1581	0.1581	0.0038	0.38%		99.62%
25	Coarse Sand		0.5	0.71				0.3127	0.4708	0.0075	1.12%		98.88%
35			1	0.5				2.4715	2.9423	0.0590	7.02%		92.98%
45	Med. Sand		1.5	0.355				0.0000	2.9423	0.0000	7.02%		92.98%
60			2	0.25				12.6814	15.6237	0.3027	37.29%		62.71%
80	Fine Sand		2.5	0.18				3.2474	18.8711	0.0775	45.04%		54.96%
120			3	0.12				1.6752	20.5463	0.0400	49.04%		50.96%
170	Very Fine Sand		3.5	0.09				1.0768	21.6231	0.0257	51.61%		48.39%
230			4	0.063				0.7147	22.3378	0.0171	53.31%		47%
1	Coarse Silt		4.01	0.062	28'	21							

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2		5	0.031	1'52"	21	1.8828	1.8233	0.0595	0.0113	0.0482	2.3274	47
3	Med. Silt	6	0.0156	7'29"	21	1.8993	1.8472	0.0521	0.0113	0.0408	1.9701	40.18
4	Fine Silt	7	0.0078	29'28"	21	1.8802	1.8342	0.0460	0.0113	0.0347	1.6755	34.17
5	V. Fine Silt	8	0.0039	59'50"	21	1.8756	1.8352	0.0404	0.0113	0.0291	1.4051	28.66
6	Clay	9	0.002	4hr	21	1.8488	1.8121	0.0367	0.0113	0.0254	1.2266	25.01

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):	41.9	Fine < 0.063 mm (g):	20.9	49.8%	Sand > 0.062 mm (g):	21.0	50%
Test split w (g)t:		Factor:					

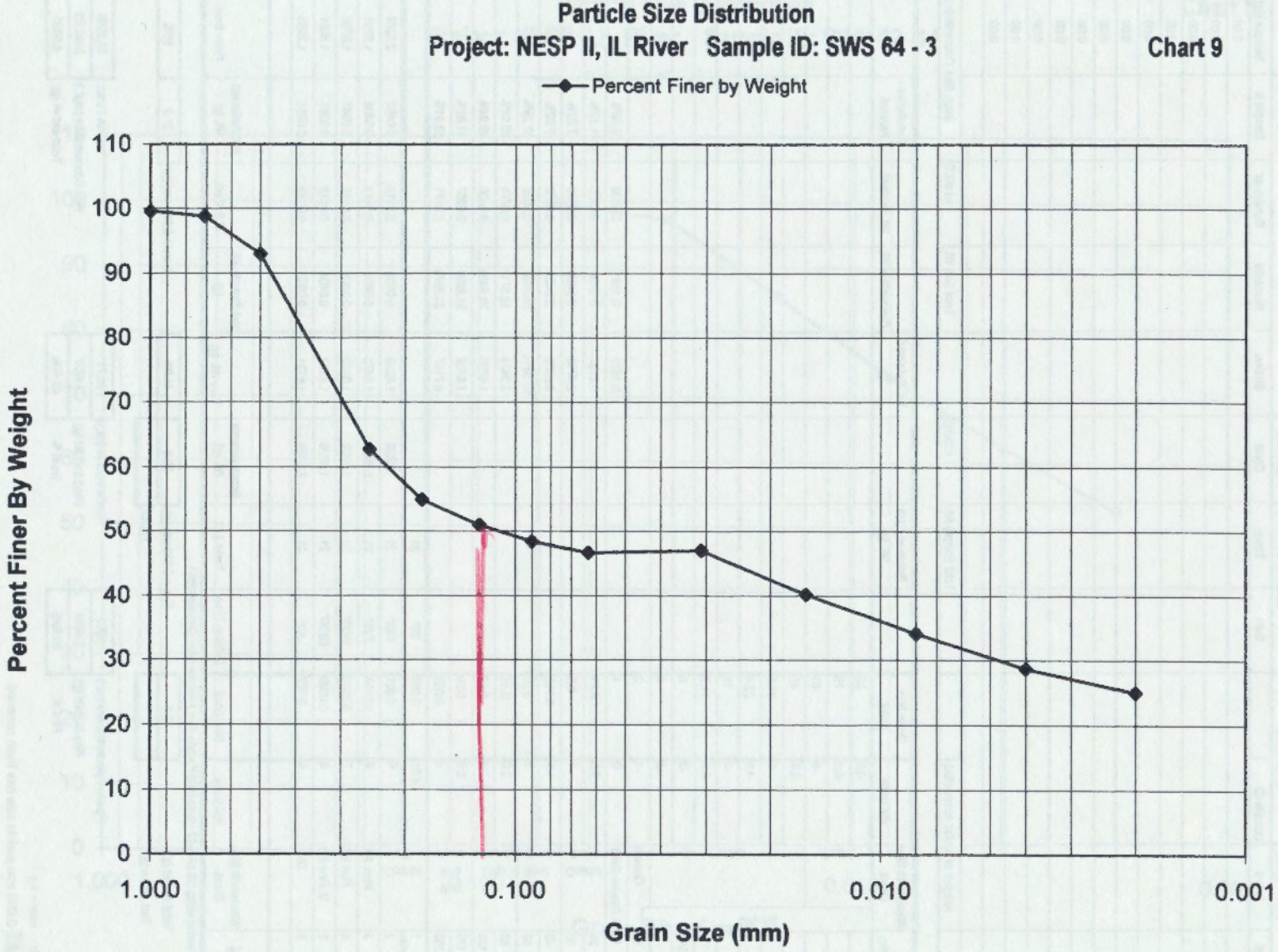
Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	2.4806	Sand Sed Wt (g):	2.4227	Fine Concentration (mg/L):	2480.80
Fine %	50.59%	Sand %	49.41%	Total sed wt (g):	4.9035

NOTES: error = 1 g

Chart: 0.062 mm particle size has been removed.

Particle Size Distribution

Project: NESP II, IL River Sample ID: SWS 64 - 3 **Chart 9**



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (samps# 10)

ID: sws 64-6

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	6/26/2006
START DATE:	6/28/2006	*COMPLETED DATE:*	7/26/2006		

SAMPLER: Jim Slowikowski

ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	393.2000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2				0.2	0.2	0.001	0.1%		99.9%
18	V. Coarse Sand		0	1				4.2	4.4	0.011	1.1%		98.9%
25	Coarse Sand		0.5	0.71				8.5	12.9	0.022	3.3%		96.7%
35			1	0.5				37.4	50.3	0.095	12.8%		87.2%
45	Med. Sand		1.5	0.355				90.4	140.7	0.230	35.8%		64.2%
60			2	0.25				89.0	229.7	0.226	58.4%		41.6%
80	Fine Sand		2.5	0.18				51.7	281.4	0.131	71.6%		28.4%
120			3	0.12				22.2	303.6	0.056	77.2%		22.8%
170	Very Fine Sand		3.5	0.09				11.6	315.2	0.030	80.2%		19.8%
230			4	0.063				6.1	321.3	0.016	81.7%		18.3%

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
1	Coarse Silt	4.01	0.062	28'	21	1.9336	1.8206	0.1130	0.0113	0.1017	4.9107	18.28
2		5	0.031	1'52"	21	1.9436	1.8423	0.1012	0.0113	0.0899	4.3409	16.16
3	Med. Silt	6	0.0156	7'29"	21	1.8924	1.8087	0.0837	0.0113	0.0724	3.4959	13.01
4	Fine Silt	7	0.0078	29'26"	21	1.9580	1.8884	0.0696	0.0113	0.0583	2.8151	10.48
5	V. Fine Silt	8	0.0039	59'50"	21	1.9094	1.8472	0.0622	0.0113	0.0509	2.4577	9.15
6	Clay	9	0.002	4hr	21	1.8673	1.8145	0.0528	0.0113	0.0415	2.0039	7.46

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

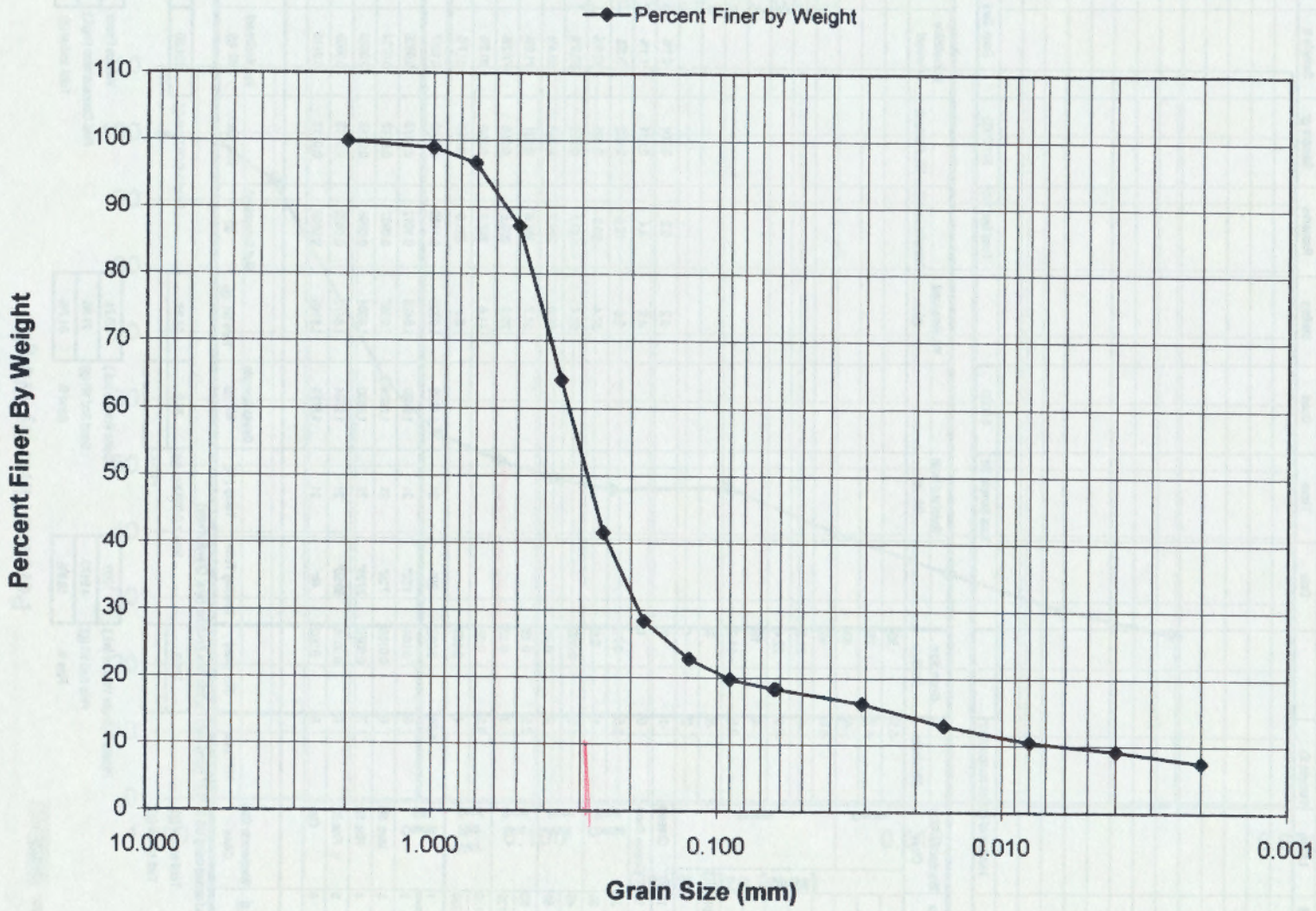
Total sed wt (g):	393.2	Fine < 0.063 mm (g):	71.9	18.3%	Sand > 0.062 mm (g):	321.30	81.7%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	4.9170	Sand Sed Wt (g):	21.95	Fine Concentration (mg/L):	4917.00
Fine %	18.3%	Sand %	81.7%	Total sed wt (g):	26.867

NOTES: Clast ID

Particle Size Distribution **Chart 10**

Project: NESP II, IL River Sample ID: SWS 64 - 6



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 11)

ID: sws 64-9

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River
START DATE:	6/28/2006	*COMPLETED DATE:*	7/12/2006
DELIVERY DATE:	6/26/2006	*SAMPLER:*	Jim Slowikowski
		ANALYSIS BY:	Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:		Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2				1.6	1.6	0.006	0.6%		99.4%
18	V. Coarse Sand		0	1				4.1	5.7	0.015	2.1%		97.9%
25	Coarse Sand		0.5	0.71				8.5	14.2	0.032	5.3%		94.7%
35			1	0.5				35.5	49.7	0.132	18.5%		81.5%
45	Med. Sand		1.5	0.355				68.6	118.3	0.255	44.0%		56.0%
60			2	0.25				64.9	183.2	0.241	68.1%		31.9%
80	Fine Sand		2.5	0.18				51.1	234.3	0.190	87.1%		12.9%
120			3	0.12				17.5	251.8	0.065	93.6%		6.4%
170	Very Fine Sand		3.5	0.09				5.5	257.3	0.020	95.6%		4.4%
230			4	0.063				1.5	258.8	0.006	96.2%		3.8%
PAN	Coarse Silt		4.01	0.062					258.8				

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*
1		5	0.031	1'52"								
2	Med. Silt	6	0.0156	7'29"								
3	Fine Silt	7	0.0078	29'58"								
4	V. Fine Silt	8	0.0039	59'50"								
5	Clay	9	0.002	4'00"								

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

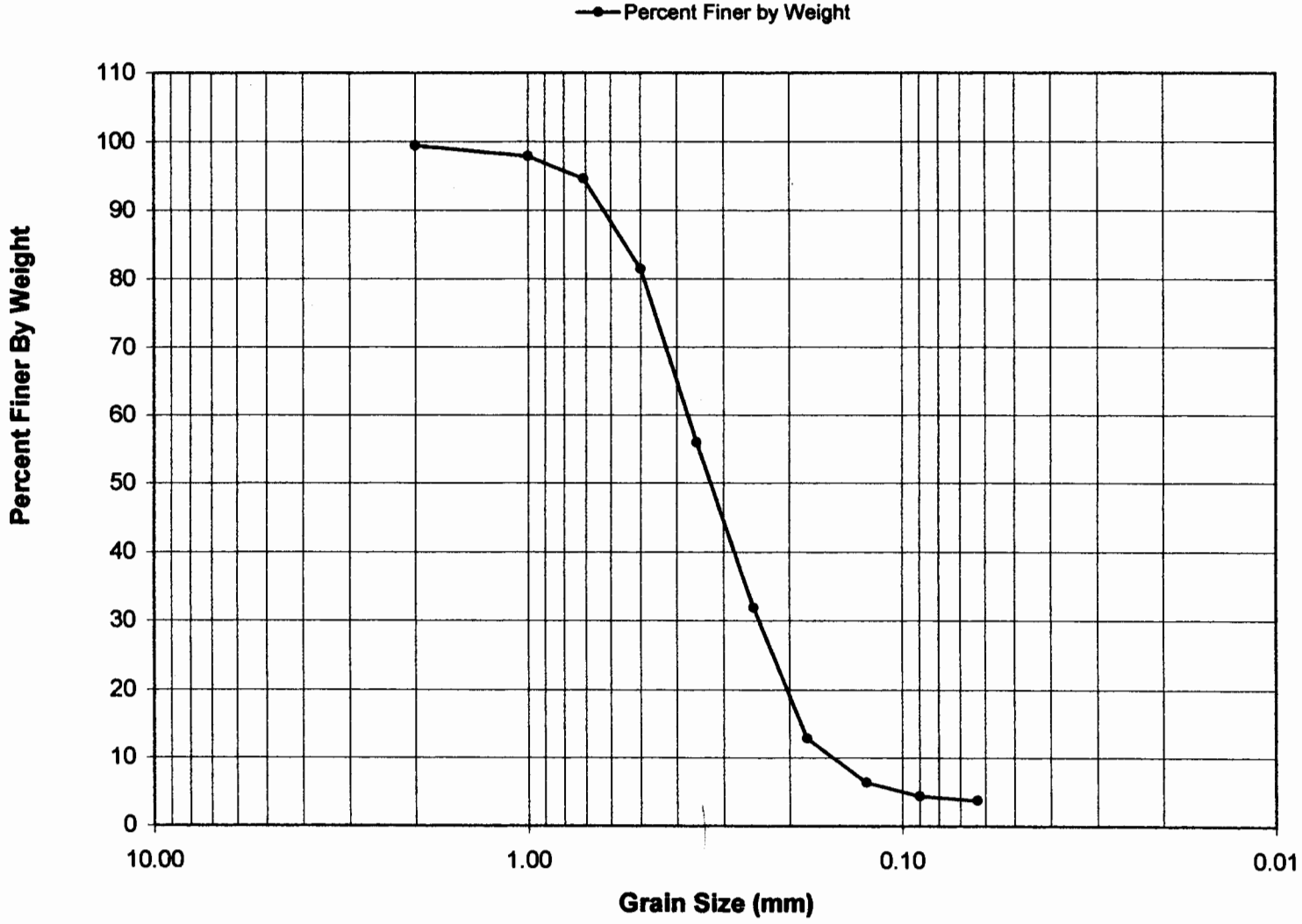
Total sed wt (g):	269.10	Fine < 0.063 mm (g):	10.3	3.8%	Sand > 0.062 mm (g):	258.80	96.2%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):		Pipette Volume (mL):		Volume Factor:	
Fine Sed Wt (g):		Sand Sed Wt (g):		Fine Concentration (mg/L):	#DIV/0!

NOTES: Chart 11

Particle Size Distribution **Chart 11**

Project: NESP II,IL River Sample ID: SWS 64 - 9



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS JOB 62 (sample# 12)

ID: sws 64-11

PROJECT:	NESP II, IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 6/26/2006	*SAMPLER:* Jim Slowikowski
START DATE:	6/28/2006	*COMPLETED DATE:*	07/25/06		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
Number of bottles composited:			Total Sample Wt:		0.0000		Total Sed Wt:	50.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% *Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10	Granule		-1	2				1.1356	1.1356	0.0227	2.27%		97.73%
18	V. Coarse Sand		0	1				1.0642	2.1998	0.0213	4.40%		95.60%
25	Coarse Sand		0.5	0.71				0.6557	2.8555	0.0131	5.71%		94.29%
35			1	0.5				1.6738	4.5293	0.0335	9.06%		90.94%
45	Med. Sand		1.5	0.355				0.0000	4.5293	0.0000	9.06%		90.94%
60			2	0.25				8.0408	12.5701	0.1608	25.14%		74.86%
80	Fine Sand		2.5	0.18				4.6227	17.1928	0.0925	34.39%		65.61%
120			3	0.12				3.2162	20.4090	0.0643	40.82%		59.18%
170	Very Fine Sand		3.5	0.09				1.7800	22.1890	0.0356	44.38%		55.62%
230			4	0.063				1.4800	23.6690	0.0296	47.34%		52.66%
PAN				<0.063				0.4300	24.0990	0.0086	48.20%		51.80%
1	Coarse Silt		4.01	0.062	26*								

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% *Finer*
2	Med. Silt	5	0.031	1'52"	21	1.8601	1.8036	0.0565	0.0113	0.0452	2.1825	44.06
3	Med. Silt	6	0.0156	7'29"	21	1.8806	1.8332	0.0474	0.0113	0.0361	1.7431	35.19
4	Fine Silt	7	0.0078	29'26"	21	1.8918	1.8511	0.0407	0.0113	0.0294	1.4196	28.66
5	V. Fine Silt	8	0.0039	59'50"	21	1.9287	1.8931	0.0356	0.0113	0.0243	1.1733	23.69
6	Clay	9	0.002	4hr	21	1.8285	1.7966	0.0319	0.0113	0.0206	0.9947	20.08

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):	50.0	Fine < 0.063 mm (g):	25.9010	51.8%	Sand > 0.062 mm (g):	24.0990	48.2%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	2.5472	Sand Sed Wt (g):	2.4053	Fine Concentration (mg/L):	2547.20
Fine %	51.42%	Sand %	48.58%	Total sed wt (g):	4.9535

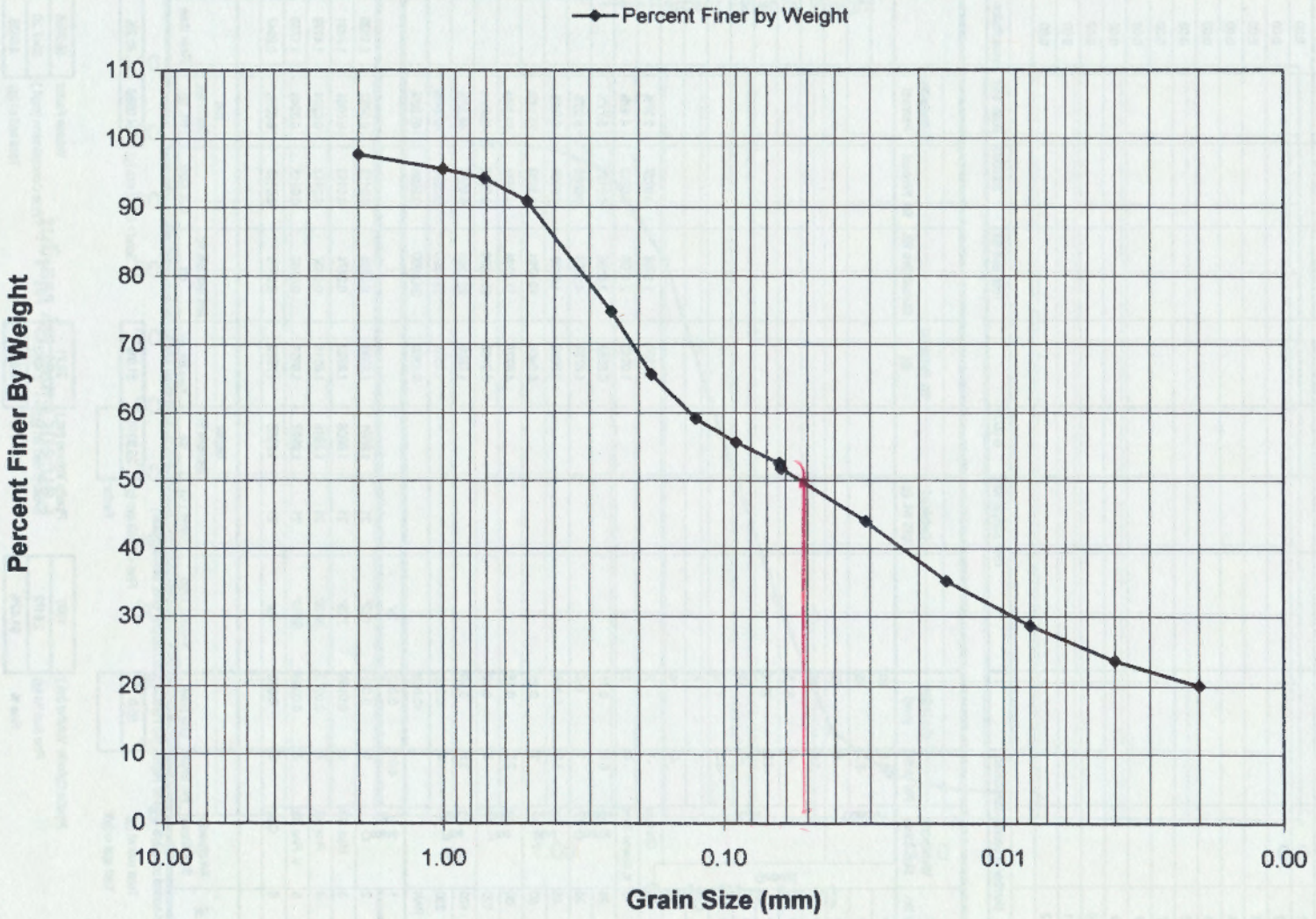
NOTES:

Chart 12 0.062 mm particle size data adopted sieve analysis.

Particle Size Distribution

Chart 12

Project: NESP II,IL River Sample ID: SWS 64 - 11



Appendix A. Field Sheets

Vibracore Log Sheet

Date: 5-8-06	ISWS Crew: KES, JAS, JCS	Project: COE	Water Body: Illinois River	Page 1 of 2
Analysis: Geotech / (Chemical)	Prepped Liner: (Yes) / No	Collected by: KES Date: 5.8.06	Relinquished by: KES Date: 5.8.06	Received by: [illegible] Date: 9 May 2006

Sample No. Stage	Location Lat/Lon	Water Depth	Cored Depth	Capped Core Length	Time (capped) CST	Comments
265	N 40°56'54.9"	1.9'	9.4'	6.1'	930	Shallow Wiegmann, Lower Meadow
	W 89°27'32.9"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				
266	N 40°57'13.5"	2.1'	3.9'	6.3'	1110	Deep Wiegmann, Middle Meadow
	W 89°27'30.7"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				
267	N 41° 01'05.3"	2.0'	7.5'	5.6'	1200	Wiegmann Shallow, Upper Wightman
	W 89°25'55.3"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				
268	N 41° 00' 38.4"	2.2'	10.0'	8.2'	1240	Wiegmann Shallow, middle Wightman
	W 89° 26' 18.4"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				
269	N 41° 00' 04.7"	2.8'	10.0'	5.3'	1310	Wiegmann Deep Lower Wightman
	W 89° 25' 58.5"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				
270	N 41° 03' 20.3"	1.7'	9.5'	6.0'	1355	Wiegmann Shallow, Upper Goose
	W 89° 24' 55.8"	Stage: ___ MnDly ___ Inst ___ Hourly Gage Name:				

7/21/2005
TES

Vibracore Log Sheet

Date: 5-8-06	ISWS Crew: KES, JAG, JLS	Project: COE	Water Body: Illinois River	Page 2 of 2
Analysis: Geotech / Chemical	Prepped Liner: Yes / No	Collected by: KES Date: 5-8-06	Relinquished by: KES Date: 5-8-06	Received by: [illegible] Date: 9 May 2006

Sample No. / Stage	Location Lat/Lon	Water Depth	Cored Depth	Capped Core Length	Time (capped) CST	Comments
271	N 41°02'29.5"	22'	12'	7.0'	1425	Wiemann Deep, Middle Goose
	W 089°25'27.5"	Stage: ____ MnDly Inst Hourly Gage Name: ____				
272	N 41°02'11.0"	2.9'	5.5'	6.4'	1455	Wiemann Shallow, Lower Goose
	W 089°25'08.7"	Stage: ____ MnDly Inst Hourly Gage Name: ____				
273	N 41°00'38.8"	1.6'	9.0'	7.5'	1550	Wiemann Shallow, Upper Sawyer, North of River cut
	W 089°25'11.7"	Stage: ____ MnDly Inst Hourly Gage Name: ____				
274	N 41°00'16.6"	1.1'	10.0'	3.0'	1625	Wiemann Deep, Upper Sawyer just south of River cut
	W 089°25'16.7"	Stage: ____ MnDly Inst Hourly Gage Name: ____				
	N					
	W	Stage: ____ MnDly Inst Hourly Gage Name: ____				
	N					
	W	Stage: ____ MnDly Inst Hourly Gage Name: ____				

7/21/2005
TES

Vibracore Log Sheet

Date: 5-9-06	ISWS Crew: KES, JAS, JLS	Project: COE	Water Body: Illinois River	Page 1 of 1
Analysis: Geotech / Chemical	Prepped Liner: Yes / No	Collected by: KES Date: 5-9-06	Relinquished by: KES Date: 5-9-06	Received by: Greg Mull Date: 9 May 2006

Sample No. Stage	Location Lat/Lon	Water Depth	Cored Depth	Capped Core Length	Time (capped) CST	Comments
275	N40°54'33.7" W089°25'24.2"	1.6'	5.6'	3.1'	0705	Woermann Shallow, Middle Sawyer
		Stage: ___ MnDly Inst Hourly Gage Name: ___				hit solid substrate early
276	N40°55'59.7" W089°25'36.5"	1.5'	10.0'	8.4'	0750	Woermann Shallow, Lower Sawyer
		Stage: ___ MnDly Inst Hourly Gage Name: ___				cored last 5' very slow, bottom 5" of core disturbed
277	N40°55'38.6" W089°26'16.5"	1.7'	6.5'	4.0'	0840	Woermann Shallow, lower Sawyer southern most, hit solid substrate early
		Stage: ___ MnDly Inst Hourly Gage Name: ___				
278	N40°57'55.4" W089°26'17.5"	1.7'	9.0'	6.2'	0915	Woermann Shallow, upper Babbs
		Stage: ___ MnDly Inst Hourly Gage Name: ___				last 2-3' cored very hard, no core rose bag
279	N40°57'19.3" W089°26'21.0"	2.0'	9.5'	7.7'	0945	Woermann Shallow, middle Babbs
		Stage: ___ MnDly Inst Hourly Gage Name: ___				Bottom 4" of core disturbed.
280	N40°56'22.3" W089°27'36.0"	2.9'	7.3'	4.6'	1020	Woermann Shallow, lower Babbs
		Stage: ___ MnDly Inst Hourly Gage Name: ___				hit solid substrate early

7/21/2005
TBS

Appendix B. Standard Operating Procedures for the Collection of Sediment Cores Using the Rossfelder 3-Pc Vibrocore

Standard Operating Procedures for the Collection of Sediment Cores Using the Rossfelder 3-Pc Vibrocore

1.0 Scope and Application

1.1 These procedures are used in the collection of sediment cores to ensure that all samples are representative of in-situ conditions for that location and to maintain the stratigraphic integrity of collected samples.

2.0 Summary of Method

2.1 The vibrocoring system employed by the Illinois State Water Survey (ISWS) is a model P-3c manufactured by Rossfelder Corporation of Ponway, California. The vibrocoring unit is submersible, weighs approximately 150 lbs and is powered by a three phase, 240 volt 60 Hz generator. The P-3c has a working depth of 4,000 ft. Sediment penetration is achieved through a method known as vibro-percussive where the unit delivers 16-24 KN (1 KN= 225 lbs.) of force and a vibration frequency of 3,450 vibrations per minute to the core tube. Coring is made possible by both the percussive force of the corer as well as the fact that the sediment particles surrounding the drive tube are "liquefied" by the vibrational forces along the tube. The corer is lowered into the sediment until the point of refusal. The unit is then engaged and coring proceeds until penetration ceases or the entire length of the drive tube is reached. Penetration depths and recovery rates depend on many factors such as the water content of the sediment, particle size and shapes, compaction / density, and even calcification. Therefore, the best results will always be obtained in unconsolidated, water-saturated, heterogeneous, sediments. There are no core sites that are exactly the same, thus predicting correct penetration depths cannot be done. Typical lake sediments, loams, or sands and gravel generally allow for complete penetration. Deposits of large cobble, non-hydrated clay lenses greater than 1 foot in thickness or the occurrence of large woody debris may inhibit coring. Currently the ISWS vibrocore is configured so that cores are approximately nine feet long when recovery is 100%.

3.0 Equipment

3.1 Pontoon Boat

3.2 Rossfelder P-3c Vibrocore

3.3 Drive Tube Assembly

4.0 Preparation of Sampling Equipment

4.1 Vibrocore

The vibrocore is a self-contained watertight unit and requires very little preparation before sampling. All electrical wires and connections should be

checked for wear or damage. Hardware used in the rigging and clamps should also be inspected. During the first coring operation, and then periodically throughout the day, each leg of the 3-phase power supply should be checked to ensure equal voltage and amperage draw across all three legs to ensure that the vibrocore is operating properly.

4.2 Drive Tube Assembly

The drive tube assembly consists of three parts; the drive or core tube, the core tube liner, which is extruded High Density Polyethylene (HDPE); and the core or cutter nose. Integral to the core nose is a "core catcher" made from 0.010' stainless steel. This piece extends into the core tube and is cut into a series of radial biased fins. If the collected sediment core is drawn out of the core tube during extraction, these fingers will fold inward and inhibit loss of sample material. Preparation for the drive tube assembly varies according to whether the intended use of the collected sediment core is to supply sub-samples for geotechnical information or for chemical analysis.

4.2.1 Core tube

The core tube or drive tube requires little or no preparation before sampling since the core tube never contacts the sample. The core tube only supplies the structural integrity necessary for coring operations. The pre-drilled holes for attaching the core nose should be periodically inspected for wear or damage to ensure a proper fit with little or no play to avoid the rivets being cut by the core tube during operation.

4.2.2 HDPE Liner

4.2.2.1 Sub-sampling for Geotechnical Data

When sampling is being conducted for geotechnical samples the only preparation for the liner is to check the overall dimension of the liner to ensure a proper fit in the core tube. If any fugitive tube materials are observed where the tube was cut during production, these can be easily removed with a pocketknife or razor knife.

4.2.2.2 Sub-sampling for Chemical Analysis

When a sample is to be collected for chemical analysis a more thorough preparation of the liner is required. The liner should be checked to be sure that the length allows for proper assembly of the core tube to the vibrocore head. Any frayed liner material left from the factory cut should be removed. The liner is then washed with Ecolab Microtox® or an equivalent, and then rinsed with deionized water. Next, the tube will be rinsed with a 10% solution of nitric acid and then thoroughly rinsed once again with deionized water. After drying, the tube shall be capped at both ends and the caps taped in place. The tubes will remain capped throughout transportation and shall be uncapped only prior to being loaded into the core tube for coring operations.

4.2.3 Core nose

4.2.3.1 Sub-sampling for Geotechnical Data

The core nose is machined from a solid piece of 303-grade stainless steel. There is very little preparation required for the core nose when sampling for geotechnical purposes. The core nose should be inspected for wear or damage, especially to the cutting edge. Any dirt or sediments left on the core nose from previous sampling should be removed using a stiff brush with nylon or other inert material bristles. The core catcher should also be inspected and any residue remaining from previous sampling should be removed with a stiff brush and the core catcher rinsed in native water.

4.2.3.2 Sub-sampling for Chemical Analysis

When samples are being collected for chemical analysis the preparation of the core nose requires additional cleaning beyond what is necessary when sampling for geotechnical analysis. The core nose should be inspected for wear or damage, especially to the cutting edge. Any dirt or sediments left on the core nose from previous sampling should be removed using a stiff brush manufactured with inert materials. The core catcher should also be inspected and any residue remaining from previous sampling should be removed with a stiff brush and the catcher rinsed in native water. The core nose should then be washed in a similar manner as previously described for the liners. The core nose and catcher are first washed with Ecolab Micro-tox laboratory soap and subsequently rinsed with native water. The cutter nose and core catcher should then be rinsed with 10% nitric acid and then thoroughly rinsed with native water.

5.0 Deployment

5.1 Pontoon Boat

Vibrocoring operations are conducted from an 18' 6" pontoon boat. Coring operations occur through an opening in the deck or "moon pool" located approximately midship. To facilitate the deployment of the vibrocore, an electric winch and 16' deck mounted tetrapod (tower) are utilized. The tetrapod is assembled prior to launching as well as all cabling and electrical hookups. Generally, sampling occurs at predetermined locations. Station is maintained through the use of a three point anchoring system. Position is determined using a Differentially Corrected Global Positioning System (DGPS).

5.2 Rossfelder P-3c Vibrocore

The vibrocore is powered by a three phase, 240 volt 60 Hz generator located on deck. All connections between the generator and the vibrocore are screw type Impulse® watertight connectors. Deployment of the corer uses an electric hoist set up with a double line and rated for a maximum hoist of 6000 lbs. All shackles, pulleys, or other points of attachment are secured with clevis pins or seizing wire.

5.3 Drive Tube Assembly

The core tube is a 10 ft. section of 3.5" industrial pipe size (IPS) schedule 5 black iron pipe, having an OD of 4.0", a wall thickness of 0.083" and an ID of 3.834". The core tube is equipped with a cutter nose fabricated from 303-stainless steel and includes a 303-stainless steel core catcher to help ensure retention of the sample. The core tube and core nose incorporates a custom extruded HDPE liner with a wall thickness of 0.07". This facilitates the removal and transportation of collected cores and allows collected cores to be used for chemical analysis. The core tube is attached to the vibrocore head using an offset block clamp incorporated into the vibrocore head. The core nose is fixed to the drive tube using four rivets located at the quarter points of the drive tube.

6.0 Sampling

6.1 Vibrocoring

6.1.1 Coring

The collection of a core using the vibrocore should be done using the following procedures to ensure that the maximum percent recovery is attained and that the stratigraphic integrity of the sample is maintained. Once the boat has been successfully anchored with the proper scope to all anchors, the DGPS should be initialized. The sampler is then hoisted and all shackles and cabling should be visually checked to ensure the proper attitude of the sample. Depth of water is then determined using a graduated range pole equipped with a 6-inch foot to help define the water sediment interface. If water depths are too great for the use of a range pole then a calibrated sounding line or fathometer is used depending on water depth and velocities. Water depth is then entered onto the coring log sheet. The vibrocore is then lowered using the hoist and is allowed to penetrate the sediment under its own weight until the drive tube has sufficiently penetrated the sediments to minimize disturbance to the surficial sediments during start-up or the point of refusal is reached. If the water is sufficiently shallow, the deck crew can manually oriented the vibrocore to ensure the correct vertical orientation. The corer is then switched on and is allowed to penetrate the sediments until it becomes apparent that penetration has ceased or the corer has penetrated the length of the drive tube. If the vibrocore has not penetrated the entire length of the drive tube when progress ceases, the cored depth is determined by sounding the top of the vibrohead, adding 1.2ft to the sounded depth to allow for the vibrocore itself, and subtracting this value from the water depth. The resultant cored depth is then entered onto the coring log sheet.

6.1.2 Core Retrieval

When retrieving the core the hoist is re-engaged and the core is hoisted to the deck. The core should be hoisted high enough to allow the moonpool to be covered and the core tube is then lowered nose down onto the deck. The core tube is then removed from the clamp on the vibrocore head and the head lowered to the deck. Then remove the four rivets that fasten the core nose to the core tube with the core remaining upright. The core tube is then hoisted off the liner, again with the core remaining upright, and the drive tube is lowered to the deck. Any supernatant water remaining in the core tube is then siphoned off and

the liner is removed at the top of the sediment and capped. A sample identification number, date, orientation (top) and sampling time are written on the cap. The core can now be laid down on the deck, the core nose removed, and the bottom end capped. The position of the core can now be taken from the DGPS unit and entered onto the core log sheet.

6.1.3 Core Transport and Storage

Requirements for the transportation and storage of collected cores will vary depending on the intended uses or analyses. The cores as collected are capped, labeled and sealed. There is limited chance for reordering of the core stratigraphy when the core tube has been properly cut and capped so there is no requirement that the core remain upright. In addition, while being transported on the boat the core tubes are placed within storage tubes constructed of schedule 40 PVC equipped with end caps. Since the tubes are completely enclosed there is no chance for distortion of the core due to flexing of the sample. When core retrieval is at or near 100%, core sample weights can approach 100 lbs. Care should be taken when handling samples to avoid injury and to avoid any flexing of the core sample to minimize any disturbance to the sample. Since cores commonly approach 10 feet in length, a vehicle capable of transporting this size material must be available.

Core samples by the nature of the collection technique limit exposure of the sample to atmospheric oxygen and possible oxidation of selected chemical constituents. If temperature is an important consideration then it may become necessary for samples to be immediately transported to a cold storage facility or sub-sampling may be required on site with appropriate storage of sub-samples. It is important that the plan of study for chemical analysis be clearly defined as constituents have specific requirements for holding times, temperature and material in which the sample is stored. Requirements for the storage and manipulation of sediment samples can be found in such reference materials as United States Environmental Protection Agency document EPA-823-B-01-002 and the 2000 ASTM Standards on Environmental Sampling, Vol. 11.05.

Appendix C. Chemical Results from Severn Trent Laboratories

SEVERN TRENT STL®

STL Chicago
2417 Bond Street
University Park, IL 60466

Tel: 708 534 5200 Fax: 708 534 5211
www.stl-inc.com

SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 246484

Prepared For:

Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820

Project: Lacon Area

Attention: James Slowikowski

Date: 05/30/2006

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

5/30/06
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

This Report Contains (103) Pages

STL Chicago
Wet Chemistry Case Narrative

Client: **Illinois State Water Survey**
Job #: **246484** Date Rec'd: 05/12/06

1. This narrative covers the analysis of samples in the above Job # for ammonia-nitrogen, COD, cyanide, TOC, density, pH, phosphorus, and TKN by the methods given on the Laboratory Test Results pages.

2. The EPA holding times were met.

3. The initial and continuing calibration verification standards and blanks were in control.

4. The method blanks were below the reporting limits.

5. The LCS recoveries were within control limits. Please see the Quality Control Results pages for additional details.

6. The matrix QC that was done on these samples was all within acceptance limits, where applicable. The TKN spiking concentration was less than ¼ the sample concentration and not expected or required to be within the usual spike limits of 75-125% recovery.

Diane L. Harper
Wet Chemistry Section Manager

5-30-06
Date

Severn Trent Laboratories Chicago
METALS CASE NARRATIVE

Client: Illinois State Water Survey
Job ID: Lacon Area
STL Job#: 246484

Rec'd: 05/12/06

1. This narrative covers Metals analysis of samples in the above STL Job 246484.

   Method Refs: USEPA, SW-846

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below the Reporting Limits.

6. Laboratory Control Sample (LCS) recoveries were within control limits.

7. Matrix QC was performed on Sample 2.

   Serial Dilution analysis was within control limits except for Co, Pb, Mn and Zn.

   Matrix Spike (MS/MSD) recoveries were within 75-125% control limits (control limits are not applicable when the sample concentration exceeds the spike added concentration by a factor of 4 or more) except for Sb, K (MS/MSD) and Hg (MS).

   Duplicate results were within the 20% RPD control limits for sample concentrations greater than 5X the R.L. or +\- the R.L for sample concentrations less than 5X the R.L.

Jodi L. Gromala
Metals Section Manager

5-12-06
Date

Severn Trent Services - Chicago
GC/MS BNA Case Narrative

Illinois State Water Survey
Job Number: 246484
BNA DATA:

1. All extractions and analyses were performed within recommended hold times.

2. The Method Blank had all analytes below the contract required quantitation limits (CRQL).

3. A BNA LCS (Laboratory Control Sample) spike solution was spiked in the LCS sample. In-house statistical recovery limits and the 11 method control compounds were used for QC evaluation. All controlled spike recoveries were within the QC limits in the LCS sample.

4. Matrix Spike/Matrix Spike Duplicate analyses were performed on sample -2. The MS/MSD (Matrix Spike/Matrix Spike Duplicate) samples had eight and two controlled spike recoveries, respectively, below the QC limit and nine controlled RPD values above the QC limit. No corrective action was required due to the acceptable LCS recoveries.

5. The sample -4 MS had one surrogate below the QC limit. No corrective action was required. All other samples had surrogate recoveries within in-house generated QC limits.

6. The full scan analyses were performed following USEPA SW846 8270C protocol. The samples -5, -5 D1 and -8 D1 had the last internal standard above the QC limit. Sample -5 exhibited a similar matrix effect; therefore, no further corrective action was required. No target compounds were reported off of the last internal standard in -8 D1; therefore, no corrective action was required. All other samples had internal standard areas and retention times within the SOP acceptance limits as compared to the corresponding calibration verification.

7. The samples were extracted and analyzed as low-level soils; therefore, normal detection limits apply. The results are on a dry weight basis. Samples -5 and -8 required secondary dilutions.

Gary Rynkar
GC/MS BNA Supervisor

5/26/6
Date

STL Chicago
Pesticide Case Narrative

Illinois State Water Survey
Lacon Area
Job #: 246484-1 through 10
Pesticides

1. STL Chicago used the following Gas Chromatographic systems for the analysis of these pesticides:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
16	Agilent 6890II+	Rtx-Clp2 (Primary)	Electron Capture
15	Agilent 6890II+	Rtx-Clp1 (Confirmation)	Electron Capture

2. These soil samples were extracted based on SW846 method 3541. The extracts were analyzed for pesticides based on SW846 method 8081A. The extracts received a GPC cleanup in order to reduce matrix interference.

3. All required holding times were met for the extraction and for the analysis.

4. The method blank was below the reporting limit for all target compounds.

5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.

6. All blank spike recoveries were within statistical control limits. A solution containing all single component pesticides, except Atrazine was used for spiking.

7. A matrix spike and a matrix spike duplicate were performed on sample 246484-2 (266). All recoveries and RPD's were within statistical control limits.

8. All initial and continuing (grand mean <15% difference) standard calibrations associated with these samples were within control on both columns and all target compounds detected were >15% difference.

9. All results were reported from the primary column.

10. Target compounds were qualitatively confirmed using a second column.

11. All samples were analyzed at dilutions due to dark color of extract. Reporting limits have been adjusted to reflect the necessary dilution.

Karen D. Lesiak
GC Analyst

5/26/06
Date

STL Chicago
PCB Case Narrative

Illinois State Water Survey
LACON
Job #: 246484-1 through 10
PCBs

1. STL Chicago used the following Gas Chromatographic systems for the analysis of PCBs:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
31	HP 6890	Rtx-5 (Primary)	Electron Capture
32	HP 6890	Rtx-Clp2	Electron Capture

2. This sediment samples were extracted based on SW846 method 3541. The extracts were analyzed for PCBs based on SW846 method 8082. All extracts received a GPC clean up and a sulfuric acid cleanup in order to reduce matrix interference.

3. All required holding times were met for the extraction and for the analysis.

4. The method blank was below the reporting limits for all Aroclors.

5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits with the exception of sample 246484-7(271) with recovery of 66%.

6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.

7. All blank spike and blank spike duplicate recoveries and RPDs were within statistical control limits.

8. A matrix spike and a matrix spike duplicate were performed on sample 246484-2(266). The MS and MSD recoveries and RPDs were within statistical limits.

9. All initial and continuing (grand mean <15% difference) standard calibrations associated with this sample were in control on the primary column. All SSV recoveries were within limits of 85%-115%.

10. Target compounds were not detected in the primary analysis. Therefore, a second column confirmation was not required.

Brenda J. Thompson
Organics Unit Leader

5-26-06
Date

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SAMPLE INFORMATION
Date: 05/30/2006

Job Number.: 246484
Customer...: Illinois State Water Survey
Attn.....: James Slowikowski

Project Number.....: 20006441
Customer Project ID....: LACON AREA
Project Description....: Lacon Area

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
246484-1	265	Sediment	05/08/2006	10:30	05/12/2006	10:30
246484-2	266	Sediment	05/08/2006	11:10	05/12/2006	10:30
246484-3	267	Sediment	05/08/2006	12:00	05/12/2006	10:30
246484-4	268	Sediment	05/08/2006	12:40	05/12/2006	10:30
246484-5	269	Sediment	05/08/2006	13:10	05/12/2006	10:30
246484-6	270	Sediment	05/08/2006	13:55	05/12/2006	10:30
246484-7	271	Sediment	05/08/2006	14:25	05/12/2006	10:30
246484-8	272	Sediment	05/08/2006	14:55	05/12/2006	10:30
246484-9	273	Sediment	05/08/2006	15:50	05/12/2006	10:30
246484-10	274	Sediment	05/08/2006	16:25	05/12/2006	10:30

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	9.4	U		5.4	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	beta-BHC, 3541 Solid*	9.4	U		7.7	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	delta-BHC, 3541 Solid*	9.4	U		7.7	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	gamma-BHC (Lindane), 3541 Solid*	9.4	U		5.4	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Heptachlor, 3541 Solid*	9.4	U		5.0	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Aldrin, 3541 Solid*	9.4	U		4.9	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Heptachlor epoxide, 3541 Solid*	9.4	U		5.2	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endosulfan I, 3541 Solid*	9.4	U		5.5	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Dieldrin, 3541 Solid*	9.4	U		4.9	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	4,4'-DDE, 3541 Solid*	9.4	U		5.2	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endrin, 3541 Solid*	9.4	U		5.2	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endosulfan II, 3541 Solid*	9.4	U		5.5	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	4,4'-DDD, 3541 Solid*	9.4	U		6.1	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endosulfan sulfate, 3541 Solid*	9.4	U		6.1	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	4,4'-DDT, 3541 Solid*	9.4	U		5.1	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Methoxychlor, 3541 Solid*	46	U		7.7	46	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	alpha-Chlordane, 3541 Solid*	9.4	U		4.9	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	gamma-Chlordane, 3541 Solid*	9.4	U		0.83	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Toxaphene, 3541 Solid*	92	U		61	92	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endrin aldehyde, 3541 Solid*	9.4	U		6.6	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Endrin ketone, 3541 Solid*	9.4	U		7.2	9.4	5.00000	ug/Kg	181784		05/26/06 0433	kdl
	Atrazine, 3541 Solid*	920	U		370	920	5.00000	ug/Kg	181784		05/26/06 0433	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	18	U		6.2	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
	Aroclor 1221, 3541 Solid*	18	U		5.1	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
	Aroclor 1232, 3541 Solid*	18	U		5.0	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
	Aroclor 1242, 3541 Solid*	18	U		5.4	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	41			4.0	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
	Aroclor 1254, 3541 Solid*	32			4.1	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
	Aroclor 1260, 3541 Solid*	13	J		3.6	18	1.00000	ug/Kg	181733		05/25/06 1337	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	130	U		33	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,3-Dichlorobenzene, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,4-Dichlorobenzene, Low Level Soil*	130	U		28	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,2-Dichlorobenzene, Low Level Soil*	130	U		37	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzyl alcohol, Low Level Soil*	250	U		110	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Methylphenol (o-cresol), Low Level Soil*	130	U		27	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	130	U		33	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	130	U		28	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Hexachloroethane, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	130	U		68	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Chlorophenol, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Nitrobenzene, Low Level Soil*	25	U		9.8	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	130	U		29	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzoic acid, Low Level Soil*	1300	U		260	1300	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Isophorone, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4-Dimethylphenol, Low Level Soil*	250	U		43	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Hexachlorobutadiene, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Naphthalene, Low Level Soil*	25	U		5.9	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4-Dichlorophenol, Low Level Soil*	250	U		42	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Chloroaniline, Low Level Soil*	510	U		120	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4,6-Trichlorophenol, Low Level Soil*	250	U		33	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4,5-Trichlorophenol, Low Level Soil*	250	U		56	250	1.00000	ug/Kg	181716		05/24/06 2127	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Methylnaphthalene, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Nitroaniline, Low Level Soil*	130	U		20	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Chloronaphthalene, Low Level Soil*	130	U		28	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Chloro-3-methylphenol, Low Level Soil*	250	U		57	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,6-Dinitrotoluene, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2-Nitrophenol, Low Level Soil*	250	U		70	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	3-Nitroaniline, Low Level Soil*	250	U		46	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Dimethyl phthalate, Low Level Soil*	130	U		12	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4-Dinitrophenol, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Acenaphthylene, Low Level Soil*	28			6.6	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	2,4-Dinitrotoluene, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Acenaphthene, Low Level Soil*	7.7	J		5.0	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Dibenzofuran, Low Level Soil*	130	U		17	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Nitrophenol, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Fluorene, Low Level Soil*	15	J		5.8	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Nitroaniline, Low Level Soil*	250	U		52	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	130	U		21	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Hexachlorobenzene, Low Level Soil*	51	U		19	51	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Diethyl phthalate, Low Level Soil*	130	U		14	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	130	U		18	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Pentachlorophenol, Low Level Soil*	510	U		160	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	n-Nitrosodiphenylamine, Low Level Soil*	130	U		15	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	250	U		40	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Phenanthrene, Low Level Soil*	53			4.0	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Anthracene, Low Level Soil*	33			2.7	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Carbazole, Low Level Soil*	130	U		18	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Di-n-butyl phthalate, Low Level Soil*	130	U		20	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzidine, Low Level Soil*	1300	U	*	1300	1300	1.00000	ug/Kg	181716		05/24/06 2127	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	150		H	4.6	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Pyrene, Low Level Soil*	230			5.7	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Butyl benzyl phthalate, Low Level Soil*	130	U		15	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzo(a)anthracene, Low Level Soil*	160			5.5	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Chrysene, Low Level Soil*	170			6.6	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	3,3-Dichlorobenzidine, Low Level Soil*	510	U		110	510	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	130	U		61	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Di-n-octyl phthalate, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzo(b)fluoranthene, Low Level Soil*	130		M	4.9	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzo(k)fluoranthene, Low Level Soil*	150		M	7.7	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzo(a)pyrene, Low Level Soil*	160			4.2	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	95			8.3	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	55			5.4	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzo(ghi)perylene, Low Level Soil*	130			5.6	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Caprolactam, Low Level Soil*	250	U		120	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Benzaldehyde, Low Level Soil*	250	U		110	250	1.00000	ug/Kg	181716		05/24/06 2127	glr
	Acetophenone, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,1'-Biphenyl, Low Level Soil*	25	U		8.3	25	1.00000	ug/Kg	181716		05/24/06 2127	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	130	U		30	130	1.00000	ug/Kg	181716		05/24/06 2127	glr
Method	% Solids Determination											
	% Solids, Solid	65.8			0.10	0.10	1	%	181045		05/18/06 1125	pfk
	% Moisture, Solid	34.2			0.10	0.10	1	%	181045		05/18/06 1125	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	230			18	28	1	mg/Kg	181667		05/25/06 1602	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	51000			110	6000	1	mg/Kg	181745		05/26/06 1206	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.25	B		0.1	0.7	1	mg/Kg	180914		05/15/06 1245	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	15000			520	2300	1	mg/Kg	180912		05/17/06 0910	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.671					1	* g/cc	181472		05/18/06 1000	cls
9045C	pH (Soil)											
	pH, Solid	8.1			0.2	0.2	1	pH Units	180829		05/16/06 1242	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	680			28	100	10	mg/Kg	181344		05/23/06 0827	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1300			56	220	5	mg/Kg	181188		05/19/06 1357	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.22			0.0093	0.050	1	mg/Kg	181050		05/12/06 1612	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			6.6	26	1	mg/Kg	180896		05/16/06 2020	tds
	Antimony, Solid*	0.56	B		0.56	2.6	1	mg/Kg	180896		05/16/06 2020	tds
	Arsenic, Solid*	5.4			0.48	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Barium, Solid*	110			0.094	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Beryllium, Solid*	0.73			0.023	0.52	1	mg/Kg	180896		05/16/06 2020	tds
	Cadmium, Solid*	1.7			0.075	0.26	1	mg/Kg	180896		05/16/06 2020	tds
	Calcium, Solid*	23000			2.4	13	1	mg/Kg	180896		05/16/06 2020	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 265
Date Sampled.....: 05/08/2006
Time Sampled.....: 10:30
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-1
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	29			0.13	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Cobalt, Solid*	9.6			0.16	0.65	1	mg/Kg	180896		05/16/06 2020	tds
	Copper, Solid*	28			0.29	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Iron, Solid*	23000			2.9	13	1	mg/Kg	180896		05/16/06 2020	tds
	Lead, Solid*	28			0.33	0.65	1	mg/Kg	180896		05/16/06 2020	tds
	Magnesium, Solid*	13000			1.3	13	1	mg/Kg	180896		05/16/06 2020	tds
	Manganese, Solid*	520			0.069	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Molybdenum, Solid*	1.4			0.60	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Nickel, Solid*	26			0.62	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Potassium, Solid*	1500			7.8	65	1	mg/Kg	180896		05/16/06 2020	tds
	Selenium, Solid*	0.77	B		0.59	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Silver, Solid*	0.46	B		0.13	0.65	1	mg/Kg	180896		05/16/06 2020	tds
	Sodium, Solid*	130			100	130	1	mg/Kg	180896		05/16/06 2020	tds
	Thallium, Solid*	1.3	U		0.74	1.3	1	mg/Kg	180896		05/16/06 2020	tds
	Vanadium, Solid*	24			0.20	0.65	1	mg/Kg	180896		05/16/06 2020	tds
	Zinc, Solid*	140			1.8	2.6	1	mg/Kg	180896		05/16/06 2020	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	11	U		6.5	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	beta-BHC, 3541 Solid*	11	U		9.5	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	delta-BHC, 3541 Solid*	11	U		9.5	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	gamma-BHC (Lindane), 3541 Solid*	11	U		6.6	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Heptachlor, 3541 Solid*	11	U		6.1	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Aldrin, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Heptachlor epoxide, 3541 Solid*	11	U		6.3	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endosulfan I, 3541 Solid*	11	U		6.8	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Dieldrin, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	4,4'-DDE, 3541 Solid*	11	U		6.3	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endrin, 3541 Solid*	11	U		6.4	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endosulfan II, 3541 Solid*	11	U		6.8	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	4,4'-DDD, 3541 Solid*	11	U		7.4	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endosulfan sulfate, 3541 Solid*	11	U		7.4	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	4,4'-DDT, 3541 Solid*	11	U		6.3	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Methoxychlor, 3541 Solid*	56	U		9.5	56	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	alpha-Chlordane, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	gamma-Chlordane, 3541 Solid*	11	U		1.0	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Toxaphene, 3541 Solid*	110	U		74	110	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endrin aldehyde, 3541 Solid*	11	U		8.1	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Endrin ketone, 3541 Solid*	11	U		8.8	11	5.00000	ug/Kg	181784		05/26/06 0458	kdl
	Atrazine, 3541 Solid*	1900			450	1100	5.00000	ug/Kg	181784		05/26/06 0458	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	23	U		7.6	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
	Aroclor 1221, 3541 Solid*	23	U		6.2	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
	Aroclor 1232, 3541 Solid*	23	U		6.1	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
	Aroclor 1242, 3541 Solid*	23	U		6.6	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	65			4.9	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
	Aroclor 1254, 3541 Solid*	53			5.0	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
	Aroclor 1260, 3541 Solid*	20	J		4.5	23	1.00000	ug/Kg	181733		05/25/06 1401	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	150	U		43	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	150	U		40	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,3-Dichlorobenzene, Low Level Soil*	150	U		38	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,4-Dichlorobenzene, Low Level Soil*	150	U		34	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,2-Dichlorobenzene, Low Level Soil*	150	U		44	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzyl alcohol, Low Level Soil*	300	U		130	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Methylphenol (o-cresol), Low Level Soil*	150	U		33	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	150	U		39	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	150	U		34	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Hexachloroethane, Low Level Soil*	150	U		47	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	150	U		82	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Chlorophenol, Low Level Soil*	150	U		36	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Nitrobenzene, Low Level Soil*	30	U		12	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	150	U		34	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	150	U		46	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzoic acid, Low Level Soil*	1500	U		310	1500	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Isophorone, Low Level Soil*	150	U		25	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4-Dimethylphenol, Low Level Soil*	300	U		52	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Hexachlorobutadiene, Low Level Soil*	150	U		43	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Naphthalene, Low Level Soil*	9.4	J		7.1	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4-Dichlorophenol, Low Level Soil*	300	U		50	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Chloroaniline, Low Level Soil*	610	U		140	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4,6-Trichlorophenol, Low Level Soil*	300	U		40	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4,5-Trichlorophenol, Low Level Soil*	300	U		67	300	1.00000	ug/Kg	181716		05/24/06 2149	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	400		H	5.5	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Pyrene, Low Level Soil*	640			6.8	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Butyl benzyl phthalate, Low Level Soil*	150	U		18	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzo(a)anthracene, Low Level Soil*	310			6.6	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Chrysene, Low Level Soil*	460			7.9	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	3,3-Dichlorobenzidine, Low Level Soil*	610	U		130	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	150	U		73	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Di-n-octyl phthalate, Low Level Soil*	150	U		27	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzo(b)fluoranthene, Low Level Soil*	300		M	5.9	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzo(k)fluoranthene, Low Level Soil*	340		M	9.3	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzo(a)pyrene, Low Level Soil*	420		H	5.1	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	210			10	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	130			6.5	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzo(ghi)perylene, Low Level Soil*	280			6.7	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Caprolactam, Low Level Soil*	300	U		140	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzaldehyde, Low Level Soil*	300	U		140	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Acetophenone, Low Level Soil*	150	U		43	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,1'-Biphenyl, Low Level Soil*	30	U		10	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	150	U		35	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
Method	% Solids Determination											
	% Solids, Solid	54.8			0.10	0.10	1	%	181045		05/18/06 1125	pfk
	% Moisture, Solid	45.2			0.10	0.10	1	%	181045		05/18/06 1125	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	160			12	19	1	mg/Kg	181667		05/25/06 1603	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	77000			83	4600	1	mg/Kg	181745		05/26/06 1208	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	610	U		240	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Methylnaphthalene, Low Level Soil*	150	U		38	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Nitroaniline, Low Level Soil*	150	U		24	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Chloronaphthalene, Low Level Soil*	150	U		34	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Chloro-3-methylphenol, Low Level Soil*	300	U		68	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,6-Dinitrotoluene, Low Level Soil*	150	U		35	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2-Nitrophenol, Low Level Soil*	300	U		83	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	3-Nitroaniline, Low Level Soil*	300	U		55	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Dimethyl phthalate, Low Level Soil*	150	U		15	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4-Dinitrophenol, Low Level Soil*	610	U		240	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Acenaphthylene, Low Level Soil*	63			7.9	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	2,4-Dinitrotoluene, Low Level Soil*	150	U		25	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Acenaphthene, Low Level Soil*	15	J		6.0	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Dibenzofuran, Low Level Soil*	150	U		20	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Nitrophenol, Low Level Soil*	610	U		240	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Fluorene, Low Level Soil*	30	J		7.0	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Nitroaniline, Low Level Soil*	300	U		63	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	150	U		25	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Hexachlorobenzene, Low Level Soil*	61	U		23	61	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Diethyl phthalate, Low Level Soil*	150	U		16	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	150	U		22	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Pentachlorophenol, Low Level Soil*	610	U		190	610	1.00000	ug/Kg	181716		05/24/06 2149	glr
	n-Nitrosodiphenylamine, Low Level Soil*	150	U		18	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	300	U		48	300	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Phenanthrene, Low Level Soil*	100			4.8	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Anthracene, Low Level Soil*	79			3.3	30	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Carbazole, Low Level Soil*	150	U		22	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Di-n-butyl phthalate, Low Level Soil*	150	U		24	150	1.00000	ug/Kg	181716		05/24/06 2149	glr
	Benzidine, Low Level Soil*	1500	U	*	1500	1500	1.00000	ug/Kg	181716		05/24/06 2149	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.25	B		0.2	0.9	1	mg/Kg	180914		05/15/06 1246	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	14000			520	2300	1	mg/Kg	180912		05/17/06 0937	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.436					1	* g/cc	181472		05/18/06 1021	cls
9045C	pH (Soil)											
	pH, Solid	7.3			0.2	0.2	1	pH Units	180829		05/16/06 1246	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	930			30	110	10	mg/Kg	181344		05/23/06 0827	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1900			75	300	5	mg/Kg	181188		05/19/06 1357	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.32			0.011	0.060	1	mg/Kg	181050		05/12/06 1618	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	17000			8.2	32	1	mg/Kg	180896		05/16/06 2024	tds
	Antimony, Solid*	0.71	B		0.70	3.2	1	mg/Kg	180896		05/16/06 2024	tds
	Arsenic, Solid*	7.3			0.60	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Barium, Solid*	130			0.12	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Beryllium, Solid*	0.97			0.029	0.65	1	mg/Kg	180896		05/16/06 2024	tds
	Cadmium, Solid*	2.3			0.094	0.32	1	mg/Kg	180896		05/16/06 2024	tds
	Calcium, Solid*	17000			3.0	16	1	mg/Kg	180896		05/16/06 2024	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 266
Date Sampled.....: 05/08/2006
Time Sampled.....: 11:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-2
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	43			0.16	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Cobalt, Solid*	11			0.19	0.81	1	mg/Kg	180896		05/16/06 2024	tds
	Copper, Solid*	41			0.36	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Iron, Solid*	28000			3.6	16	1	mg/Kg	180896		05/16/06 2024	tds
	Lead, Solid*	44			0.41	0.81	1	mg/Kg	180896		05/16/06 2024	tds
	Magnesium, Solid*	8600			1.6	16	1	mg/Kg	180896		05/16/06 2024	tds
	Manganese, Solid*	480			0.086	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Molybdenum, Solid*	1.7			0.75	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Nickel, Solid*	36			0.78	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Potassium, Solid*	2200			9.7	81	1	mg/Kg	180896		05/16/06 2024	tds
	Selenium, Solid*	1.9			0.73	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Silver, Solid*	0.69	B		0.16	0.81	1	mg/Kg	180896		05/16/06 2024	tds
	Sodium, Solid*	150	B		130	160	1	mg/Kg	180896		05/16/06 2024	tds
	Thallium, Solid*	1.6	U		0.93	1.6	1	mg/Kg	180896		05/16/06 2024	tds
	Vanadium, Solid*	33			0.24	0.81	1	mg/Kg	180896		05/16/06 2024	tds
	Zinc, Solid*	210			2.2	3.2	1	mg/Kg	180896		05/16/06 2024	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	9.3	U		5.3	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	beta-BHC, 3541 Solid*	9.3	U		7.7	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	delta-BHC, 3541 Solid*	9.3	U		7.7	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	gamma-BHC (Lindane), 3541 Solid*	9.3	U		5.4	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Heptachlor, 3541 Solid*	9.3	U		5.0	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Aldrin, 3541 Solid*	9.3	U		4.9	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Heptachlor epoxide, 3541 Solid*	9.3	U		5.2	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endosulfan I, 3541 Solid*	9.3	U		5.5	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Dieldrin, 3541 Solid*	9.3	U		4.9	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	4,4'-DDE, 3541 Solid*	9.3	U		5.2	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endrin, 3541 Solid*	9.3	U		5.2	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endosulfan II, 3541 Solid*	9.3	U		5.5	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	4,4'-DDD, 3541 Solid*	9.3	U		6.0	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endosulfan sulfate, 3541 Solid*	9.3	U		6.0	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	4,4'-DDT, 3541 Solid*	9.3	U		5.1	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Methoxychlor, 3541 Solid*	46	U		7.7	46	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	alpha-Chlordane, 3541 Solid*	9.3	U		4.9	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	gamma-Chlordane, 3541 Solid*	9.3	U		0.82	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Toxaphene, 3541 Solid*	92	U		60	92	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endrin aldehyde, 3541 Solid*	9.3	U		6.6	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Endrin ketone, 3541 Solid*	9.3	U		7.1	9.3	5.00000	ug/Kg	181784		05/26/06 0906	kdl
	Atrazine, 3541 Solid*	920	U		370	920	5.00000	ug/Kg	181784		05/26/06 0906	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	18	U		6.1	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
	Aroclor 1221, 3541 Solid*	18	U		5.0	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
	Aroclor 1232, 3541 Solid*	18	U		4.9	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
	Aroclor 1242, 3541 Solid*	18	U		5.4	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	21			3.9	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
	Aroclor 1254, 3541 Solid*	22			4.1	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
	Aroclor 1260, 3541 Solid*	10	J		3.6	18	1.00000	ug/Kg	181733		05/25/06 1541	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	120	U		35	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	120	U		33	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,3-Dichlorobenzene, Low Level Soil*	120	U		31	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,4-Dichlorobenzene, Low Level Soil*	120	U		27	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,2-Dichlorobenzene, Low Level Soil*	120	U		36	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzyl alcohol, Low Level Soil*	240	U		110	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Methylphenol (o-cresol), Low Level Soil*	120	U		27	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	120	U		32	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	120	U		27	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Hexachloroethane, Low Level Soil*	120	U		39	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	120	U		67	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Chlorophenol, Low Level Soil*	120	U		30	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Nitrobenzene, Low Level Soil*	24	U		9.6	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	120	U		28	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	120	U		38	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzoic acid, Low Level Soil*	1200	U		250	1200	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Isophorone, Low Level Soil*	120	U		21	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4-Dimethylphenol, Low Level Soil*	240	U		42	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Hexachlorobutadiene, Low Level Soil*	120	U		35	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Naphthalene, Low Level Soil*	24	U		5.8	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4-Dichlorophenol, Low Level Soil*	240	U		41	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Chloroaniline, Low Level Soil*	500	U		120	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4,6-Trichlorophenol, Low Level Soil*	240	U		33	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4,5-Trichlorophenol, Low Level Soil*	240	U		55	240	1.00000	ug/Kg	181716		05/24/06 2255	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	500	U		190	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Methylnaphthalene, Low Level Soil*	120	U		31	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Nitroaniline, Low Level Soil*	120	U		20	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Chloronaphthalene, Low Level Soil*	120	U		27	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Chloro-3-methylphenol, Low Level Soil*	240	U		56	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,6-Dinitrotoluene, Low Level Soil*	120	U		29	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2-Nitrophenol, Low Level Soil*	240	U		68	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	3-Nitroaniline, Low Level Soil*	240	U		45	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Dimethyl phthalate, Low Level Soil*	120	U		12	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4-Dinitrophenol, Low Level Soil*	500	U		200	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Acenaphthylene, Low Level Soil*	24	J		6.4	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	2,4-Dinitrotoluene, Low Level Soil*	120	U		21	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Acenaphthene, Low Level Soil*	11	J		4.9	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Dibenzofuran, Low Level Soil*	120	U		16	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Nitrophenol, Low Level Soil*	500	U		190	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Fluorene, Low Level Soil*	16	J		5.7	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Nitroaniline, Low Level Soil*	240	U		51	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	120	U		21	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Hexachlorobenzene, Low Level Soil*	50	U		19	50	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Diethyl phthalate, Low Level Soil*	120	U		13	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	120	U		18	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Pentachlorophenol, Low Level Soil*	500	U		150	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	n-Nitrosodiphenylamine, Low Level Soil*	120	U		15	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	240	U		39	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Phenanthrene, Low Level Soil*	36			3.9	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Anthracene, Low Level Soil*	31			2.7	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Carbazole, Low Level Soil*	120	U		18	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Di-n-butyl phthalate, Low Level Soil*	120	U		20	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzidine, Low Level Soil*	1200	U	*	1200	1200	1.00000	ug/Kg	181716		05/24/06 2255	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	170		H	4.5	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Pyrene, Low Level Soil*	290			5.6	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Butyl benzyl phthalate, Low Level Soil*	120	U		15	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzo(a)anthracene, Low Level Soil*	120			5.4	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Chrysene, Low Level Soil*	160		H	6.4	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	3,3-Dichlorobenzidine, Low Level Soil*	500	U		100	500	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	120	U		59	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Di-n-octyl phthalate, Low Level Soil*	120	U		22	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzo(b)fluoranthene, Low Level Soil*	89		M	4.8	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzo(k)fluoranthene, Low Level Soil*	170		M	7.6	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzo(a)pyrene, Low Level Soil*	150			4.1	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	79		H	8.2	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	50			5.3	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzo(ghi)perylene, Low Level Soil*	99		H	5.5	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Caprolactam, Low Level Soil*	240	U		120	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Benzaldehyde, Low Level Soil*	240	U		110	240	1.00000	ug/Kg	181716		05/24/06 2255	glr
	Acetophenone, Low Level Soil*	120	U		35	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,1'-Biphenyl, Low Level Soil*	24	U		8.2	24	1.00000	ug/Kg	181716		05/24/06 2255	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	120	U		29	120	1.00000	ug/Kg	181716		05/24/06 2255	glr
Method	% Solids Determination											
	% Solids, Solid	67.2			0.10	0.10	1	%	181045		05/18/06 1127	pfk
	% Moisture, Solid	32.8			0.10	0.10	1	%	181045		05/18/06 1127	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	140			9.7	15	1	mg/Kg	181667		05/25/06 1604	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	42000			61	3400	1	mg/Kg	181745		05/26/06 1214	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.22	B		0.1	0.6	1	mg/Kg	180914		05/15/06 1247	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	8600			350	1500	1	mg/Kg	180912		05/17/06 1019	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.725					1	* g/cc	181472		05/18/06 1102	cls
9045C	pH (Soil)											
	pH, Solid	7.5			0.2	0.2	1	pH Units	180829		05/16/06 1252	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	650			25	91	10	mg/Kg	181344		05/23/06 0828	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1100			25	100	2	mg/Kg	181188		05/19/06 1358	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.19			0.0091	0.049	1	mg/Kg	181050		05/12/06 1626	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	14000			6.6	26	1	mg/Kg	180896		05/16/06 2112	tds
	Antimony, Solid*	0.64	B		0.57	2.6	1	mg/Kg	180896		05/16/06 2112	tds
	Arsenic, Solid*	6.4			0.49	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Barium, Solid*	110			0.095	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Beryllium, Solid*	0.78			0.024	0.53	1	mg/Kg	180896		05/16/06 2112	tds
	Cadmium, Solid*	1.8			0.076	0.26	1	mg/Kg	180896		05/16/06 2112	tds
	Calcium, Solid*	19000			2.4	13	1	mg/Kg	180896		05/16/06 2112	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 267
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:00
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-3
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	33			0.13	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Cobalt, Solid*	9.8			0.16	0.66	1	mg/Kg	180896		05/16/06 2112	tds
	Copper, Solid*	31			0.29	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Iron, Solid*	22000			2.9	13	1	mg/Kg	180896		05/16/06 2112	tds
	Lead, Solid*	32			0.33	0.66	1	mg/Kg	180896		05/16/06 2112	tds
	Magnesium, Solid*	11000			1.3	13	1	mg/Kg	180896		05/16/06 2112	tds
	Manganese, Solid*	570			0.070	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Molybdenum, Solid*	2.1			0.61	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Nickel, Solid*	27			0.63	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Potassium, Solid*	1600			7.9	66	1	mg/Kg	180896		05/16/06 2112	tds
	Selenium, Solid*	0.81	B		0.59	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Silver, Solid*	0.48	B		0.13	0.66	1	mg/Kg	180896		05/16/06 2112	tds
	Sodium, Solid*	140			100	130	1	mg/Kg	180896		05/16/06 2112	tds
	Thallium, Solid*	1.3	U		0.75	1.3	1	mg/Kg	180896		05/16/06 2112	tds
	Vanadium, Solid*	28			0.20	0.66	1	mg/Kg	180896		05/16/06 2112	tds
	Zinc, Solid*	140			1.8	2.6	1	mg/Kg	180896		05/16/06 2112	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	12	U		6.9	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	beta-BHC, 3541 Solid*	12	U		9.9	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	delta-BHC, 3541 Solid*	12	U		9.9	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	gamma-BHC (Lindane), 3541 Solid*	12	U		7.0	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Heptachlor, 3541 Solid*	12	U		6.5	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Aldrin, 3541 Solid*	12	U		6.3	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Heptachlor epoxide, 3541 Solid*	12	U		6.7	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endosulfan I, 3541 Solid*	12	U		7.1	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Dieldrin, 3541 Solid*	12	U		6.3	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	4,4'-DDE, 3541 Solid*	12	U		6.7	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endrin, 3541 Solid*	12	U		6.8	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endosulfan II, 3541 Solid*	12	U		7.1	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	4,4'-DDD, 3541 Solid*	12	U		7.8	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endosulfan sulfate, 3541 Solid*	12	U		7.8	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	4,4'-DDT, 3541 Solid*	12	U		6.6	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Methoxychlor, 3541 Solid*	59	U		9.9	59	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	alpha-Chlordane, 3541 Solid*	12	U		6.3	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	gamma-Chlordane, 3541 Solid*	12	U		1.1	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Toxaphene, 3541 Solid*	120	U		78	120	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endrin aldehyde, 3541 Solid*	12	U		8.5	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Endrin ketone, 3541 Solid*	12	U		9.2	12	5.00000	ug/Kg	181784		05/26/06 0931	kdl
	Atrazine, 3541 Solid*	2300			480	1200	5.00000	ug/Kg	181784		05/26/06 0931	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	24	U		8.0	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
	Aroclor 1221, 3541 Solid*	24	U		6.5	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
	Aroclor 1232, 3541 Solid*	24	U		6.4	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
	Aroclor 1242, 3541 Solid*	24	U		7.0	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	38			5.1	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
	Aroclor 1254, 3541 Solid*	37			5.3	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
	Aroclor 1260, 3541 Solid*	15	J		4.7	24	1.00000	ug/Kg	181733		05/26/06 1246	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	160	U		46	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	160	U		43	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,3-Dichlorobenzene, Low Level Soil*	160	U		41	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,4-Dichlorobenzene, Low Level Soil*	160	U		36	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,2-Dichlorobenzene, Low Level Soil*	160	U		48	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzyl alcohol, Low Level Soil*	320	U		150	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Methylphenol (o-cresol), Low Level Soil*	160	U		35	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	160	U		42	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	160	U		36	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Hexachloroethane, Low Level Soil*	160	U		51	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	160	U		88	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Chlorophenol, Low Level Soil*	160	U		39	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Nitrobenzene, Low Level Soil*	32	U		13	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	160	U		37	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	160	U		50	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzoic acid, Low Level Soil*	1600	U		330	1600	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Isophorone, Low Level Soil*	160	U		27	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4-Dimethylphenol, Low Level Soil*	320	U		56	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Hexachlorobutadiene, Low Level Soil*	160	U		46	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Naphthalene, Low Level Soil*	32	U		7.6	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4-Dichlorophenol, Low Level Soil*	320	U		54	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Chloroaniline, Low Level Soil*	660	U		150	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4,6-Trichlorophenol, Low Level Soil*	320	U		43	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4,5-Trichlorophenol, Low Level Soil*	320	U		73	320	1.00000	ug/Kg	181716		05/24/06 2317	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	660	U		260	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Methylnaphthalene, Low Level Soil*	160	U		41	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Nitroaniline, Low Level Soil*	160	U		26	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Chloronaphthalene, Low Level Soil*	160	U		36	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Chloro-3-methylphenol, Low Level Soil*	320	U		74	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,6-Dinitrotoluene, Low Level Soil*	160	U		38	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2-Nitrophenol, Low Level Soil*	320	U		90	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	3-Nitroaniline, Low Level Soil*	320	U		60	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Dimethyl phthalate, Low Level Soil*	160	U		16	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4-Dinitrophenol, Low Level Soil*	660	U		260	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Acenaphthylene, Low Level Soil*	31	J		8.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	2,4-Dinitrotoluene, Low Level Soil*	160	U		27	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Acenaphthene, Low Level Soil*	9.6	J		6.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Dibenzofuran, Low Level Soil*	160	U		22	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Nitrophenol, Low Level Soil*	660	U		250	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Fluorene, Low Level Soil*	22	J		7.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Nitroaniline, Low Level Soil*	320	U		68	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	160	U		27	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Hexachlorobenzene, Low Level Soil*	66	U		25	66	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Diethyl phthalate, Low Level Soil*	160	U		18	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	160	U		24	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Pentachlorophenol, Low Level Soil*	660	U		200	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	n-Nitrosodiphenylamine, Low Level Soil*	160	U		20	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	320	U		52	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Phenanthrene, Low Level Soil*	60			5.2	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Anthracene, Low Level Soil*	46			3.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Carbazole, Low Level Soil*	160	U		24	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Di-n-butyl phthalate, Low Level Soil*	160	U		26	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzidine, Low Level Soil*	1600	U	*	1600	1600	1.00000	ug/Kg	181716		05/24/06 2317	glr

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	270		H	6.0	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Pyrene, Low Level Soil*	310			7.4	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Butyl benzyl phthalate, Low Level Soil*	160	U		20	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzo(a)anthracene, Low Level Soil*	160			7.2	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Chrysene, Low Level Soil*	170		M	8.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	3,3-Dichlorobenzidine, Low Level Soil*	660	U		140	660	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	160	U		78	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Di-n-octyl phthalate, Low Level Soil*	160	U		29	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzo(b)fluoranthene, Low Level Soil*	110		M	6.4	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzo(k)fluoranthene, Low Level Soil*	170		M	10	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzo(a)pyrene, Low Level Soil*	160		H	5.5	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	88		H	11	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	51			7.1	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzo(ghi)perylene, Low Level Soil*	110		H	7.3	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Caprolactam, Low Level Soil*	320	U		150	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Benzaldehyde, Low Level Soil*	320	U		150	320	1.00000	ug/Kg	181716		05/24/06 2317	glr
	Acetophenone, Low Level Soil*	160	U		46	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,1'-Biphenyl, Low Level Soil*	32	U		11	32	1.00000	ug/Kg	181716		05/24/06 2317	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	160	U		38	160	1.00000	ug/Kg	181716		05/24/06 2317	glr
Method	% Solids Determination											
	% Solids, Solid	50.8			0.10	0.10	1	%	181045		05/18/06 1128	pfk
	% Moisture, Solid	49.2			0.10	0.10	1	%	181045		05/18/06 1128	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	440			21	33	1	mg/Kg	181667		05/25/06 1604	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	91000			91	5000	1	mg/Kg	181745		05/26/06 1217	kd

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.24	B		0.1	0.7	1	mg/Kg	180914		05/15/06 1247	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	14000			390	1700	1	mg/Kg	180912		05/17/06 1033	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.487					1	* g/cc	181472		05/18/06 1123	cls
9045C	pH (Soil)											
	pH, Solid	7.1			0.2	0.2	1	pH Units	180829		05/16/06 1255	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	850			36	130	10	mg/Kg	181344		05/23/06 0828	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	2400			83	330	5	mg/Kg	181188		05/19/06 1359	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.28			0.012	0.065	1	mg/Kg	181094		05/17/06 1509	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	17000			9.6	38	1	mg/Kg	180896		05/16/06 2117	tds
	Antimony, Solid*	1.0	B		0.82	3.8	1	mg/Kg	180896		05/16/06 2117	tds
	Arsenic, Solid*	6.5			0.70	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Barium, Solid*	150			0.14	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Beryllium, Solid*	1.0			0.034	0.76	1	mg/Kg	180896		05/16/06 2117	tds
	Cadmium, Solid*	2.0			0.11	0.38	1	mg/Kg	180896		05/16/06 2117	tds
	Calcium, Solid*	14000			3.5	19	1	mg/Kg	180896		05/16/06 2117	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 268
Date Sampled.....: 05/08/2006
Time Sampled.....: 12:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-4
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	42			0.19	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Cobalt, Solid*	12			0.23	0.95	1	mg/Kg	180896		05/16/06 2117	tds
	Copper, Solid*	40			0.42	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Iron, Solid*	27000			4.2	19	1	mg/Kg	180896		05/16/06 2117	tds
	Lead, Solid*	39			0.47	0.95	1	mg/Kg	180896		05/16/06 2117	tds
	Magnesium, Solid*	7000			1.9	19	1	mg/Kg	180896		05/16/06 2117	tds
	Manganese, Solid*	450			0.10	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Molybdenum, Solid*	2.2			0.87	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Nickel, Solid*	38			0.91	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Potassium, Solid*	2200			11	95	1	mg/Kg	180896		05/16/06 2117	tds
	Selenium, Solid*	1.4	B		0.85	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Silver, Solid*	0.75	B		0.19	0.95	1	mg/Kg	180896		05/16/06 2117	tds
	Sodium, Solid*	150	B		150	190	1	mg/Kg	180896		05/16/06 2117	tds
	Thallium, Solid*	1.9	U		1.1	1.9	1	mg/Kg	180896		05/16/06 2117	tds
	Vanadium, Solid*	33			0.28	0.95	1	mg/Kg	180896		05/16/06 2117	tds
	Zinc, Solid*	190			2.6	3.8	1	mg/Kg	180896		05/16/06 2117	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	beta-BHC, 3541 Solid*	22	U		18	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	delta-BHC, 3541 Solid*	22	U		18	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	gamma-BHC (Lindane), 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Heptachlor, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Aldrin, 3541 Solid*	22	U		11	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Heptachlor epoxide, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endosulfan I, 3541 Solid*	22	U		13	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Dieldrin, 3541 Solid*	22	U		11	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	4,4'-DDE, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endrin, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endosulfan II, 3541 Solid*	22	U		13	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	4,4'-DDD, 3541 Solid*	22	U		14	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endosulfan sulfate, 3541 Solid*	22	U		14	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	4,4'-DDT, 3541 Solid*	22	U		12	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Methoxychlor, 3541 Solid*	110	U		18	110	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	alpha-Chlordane, 3541 Solid*	22	U		11	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	gamma-Chlordane, 3541 Solid*	22	U		1.9	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Toxaphene, 3541 Solid*	210	U		140	210	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endrin aldehyde, 3541 Solid*	22	U		15	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Endrin ketone, 3541 Solid*	22	U		17	22	10.0000	ug/Kg	181784		05/26/06 0956	kdl
	Atrazine, 3541 Solid*	2100	U		850	2100	10.0000	ug/Kg	181784		05/26/06 0956	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	21	U		7.1	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
	Aroclor 1221, 3541 Solid*	21	U		5.8	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
	Aroclor 1232, 3541 Solid*	21	U		5.7	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
	Aroclor 1242, 3541 Solid*	21	U		6.2	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	55			4.6	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
	Aroclor 1254, 3541 Solid*	40			4.7	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
	Aroclor 1260, 3541 Solid*	13	J		4.2	21	1.00000	ug/Kg	181733		05/25/06 1630	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	140	U		40	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	140	U		38	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,3-Dichlorobenzene, Low Level Soil*	140	U		36	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,4-Dichlorobenzene, Low Level Soil*	140	U		32	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,2-Dichlorobenzene, Low Level Soil*	140	U		42	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzyl alcohol, Low Level Soil*	280	U		130	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Methylphenol (o-cresol), Low Level Soil*	140	U		31	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	140	U		37	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	140	U		32	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Hexachloroethane, Low Level Soil*	140	U		45	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	140	U		77	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Chlorophenol, Low Level Soil*	140	U		34	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Nitrobenzene, Low Level Soil*	28	U		11	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	140	U		33	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	140	U		44	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzoic acid, Low Level Soil*	1400	U		290	1400	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Isophorone, Low Level Soil*	140	U		24	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4-Dimethylphenol, Low Level Soil*	280	U		49	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Hexachlorobutadiene, Low Level Soil*	140	U		40	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Naphthalene, Low Level Soil*	56			6.7	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4-Dichlorophenol, Low Level Soil*	280	U		47	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Chloroaniline, Low Level Soil*	580	U		130	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4,6-Trichlorophenol, Low Level Soil*	280	U		38	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4,5-Trichlorophenol, Low Level Soil*	280	U		64	280	1.00000	ug/Kg	181716		05/24/06 2338	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	580	U		230	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Methylnaphthalene, Low Level Soil*	180		M	36	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Nitroaniline, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Chloronaphthalene, Low Level Soil*	140	U		32	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Chloro-3-methylphenol, Low Level Soil*	280	U		64	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,6-Dinitrotoluene, Low Level Soil*	140	U		34	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2-Nitrophenol, Low Level Soil*	280	U		79	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	3-Nitroaniline, Low Level Soil*	280	U		52	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Dimethyl phthalate, Low Level Soil*	140	U		14	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4-Dinitrophenol, Low Level Soil*	580	U		230	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Acenaphthylene, Low Level Soil*	560			7.5	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	2,4-Dinitrotoluene, Low Level Soil*	140	U		24	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Acenaphthene, Low Level Soil*	160			5.7	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Dibenzofuran, Low Level Soil*	45	J		19	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Nitrophenol, Low Level Soil*	580	U		220	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Fluorene, Low Level Soil*	190			6.6	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Nitroaniline, Low Level Soil*	280	U		59	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	140	U		24	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Hexachlorobenzene, Low Level Soil*	58	U		21	58	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Diethyl phthalate, Low Level Soil*	140	U		15	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	140	U		21	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Pentachlorophenol, Low Level Soil*	580	U		180	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	n-Nitrosodiphenylamine, Low Level Soil*	140	U		17	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	280	U		46	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Phenanthrene, Low Level Soil*	830			4.6	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Anthracene, Low Level Soil*	510			3.1	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Carbazole, Low Level Soil*	140	U		21	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Di-n-butyl phthalate, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzidine, Low Level Soil*	1400	U	*	1400	1400	1.00000	ug/Kg	181716		05/24/06 2338	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	3600			26	140	5.00000	ug/Kg	181716	D1	05/25/06 1738	glr
	Pyrene, Low Level Soil*	4200			32	140	5.00000	ug/Kg	181716	D1	05/25/06 1738	glr
	Butyl benzyl phthalate, Low Level Soil*	140	U		17	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzo(a)anthracene, Low Level Soil*	3000			31	140	5.00000	ug/Kg	181716	D1	05/25/06 1738	glr
	Chrysene, Low Level Soil*	3400			37	140	5.00000	ug/Kg	181716	D1	05/25/06 1738	glr
	3,3-Dichlorobenzidine, Low Level Soil*	580	U		120	580	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	340			69	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Di-n-octyl phthalate, Low Level Soil*	140	U		26	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzo(b)fluoranthene, Low Level Soil*	1100		M	5.6	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzo(k)fluoranthene, Low Level Soil*	690		M	8.8	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzo(a)pyrene, Low Level Soil*	2200		H	4.8	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	560		H	9.5	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	310		H	6.2	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzo(ghi)perylene, Low Level Soil*	740		H	6.4	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Caprolactam, Low Level Soil*	280	U		140	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Benzaldehyde, Low Level Soil*	280	U		130	280	1.00000	ug/Kg	181716		05/24/06 2338	glr
	Acetophenone, Low Level Soil*	140	U		40	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,1'-Biphenyl, Low Level Soil*	28	U		9.5	28	1.00000	ug/Kg	181716		05/24/06 2338	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	140	U		34	140	1.00000	ug/Kg	181716		05/24/06 2338	glr
Method	% Solids Determination											
	% Solids, Solid	58.2			0.10	0.10	1	%	181045		05/18/06 1129	pfk
	% Moisture, Solid	41.8			0.10	0.10	1	%	181045		05/18/06 1129	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	450			19	29	1	mg/Kg	181667		05/25/06 1605	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	83000			80	4500	1	mg/Kg	181745		05/26/06 1219	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.30	B		0.1	0.7	1	mg/Kg	180914		05/15/06 1247	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	18000			660	2800	1	mg/Kg	180912		05/17/06 1113	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.586					1	* g/cc	181472		05/18/06 1143	cls
9045C	pH (Soil)											
	pH, Solid	7.3			0.2	0.2	1	pH Units	180829		05/16/06 1258	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	840			24	89	10	mg/Kg	181344		05/23/06 0829	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	2100			82	330	5	mg/Kg	181188		05/19/06 1359	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	2.2			0.052	0.28	5	mg/Kg	181094		05/17/06 1614	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			6.7	27	1	mg/Kg	180896		05/16/06 2122	tds
	Antimony, Solid*	2.7	U		0.57	2.7	1	mg/Kg	180896		05/16/06 2122	tds
	Arsenic, Solid*	13			0.49	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Barium, Solid*	130			0.095	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Beryllium, Solid*	0.69			0.024	0.53	1	mg/Kg	180896		05/16/06 2122	tds
	Cadmium, Solid*	2.8			0.077	0.27	1	mg/Kg	180896		05/16/06 2122	tds
	Calcium, Solid*	27000			2.4	13	1	mg/Kg	180896		05/16/06 2122	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 269
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:10
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-5
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	52			0.13	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Cobalt, Solid*	8.8			0.16	0.66	1	mg/Kg	180896		05/16/06 2122	tds
	Copper, Solid*	66			0.29	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Iron, Solid*	23000			2.9	13	1	mg/Kg	180896		05/16/06 2122	tds
	Lead, Solid*	84			0.33	0.66	1	mg/Kg	180896		05/16/06 2122	tds
	Magnesium, Solid*	13000			1.3	13	1	mg/Kg	180896		05/16/06 2122	tds
	Manganese, Solid*	490			0.070	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Molybdenum, Solid*	2.3			0.61	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Nickel, Solid*	29			0.64	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Potassium, Solid*	1800			8.0	66	1	mg/Kg	180896		05/16/06 2122	tds
	Selenium, Solid*	0.89	B		0.60	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Silver, Solid*	1.3			0.13	0.66	1	mg/Kg	180896		05/16/06 2122	tds
	Sodium, Solid*	190			100	130	1	mg/Kg	180896		05/16/06 2122	tds
	Thallium, Solid*	1.3	U		0.76	1.3	1	mg/Kg	180896		05/16/06 2122	tds
	Vanadium, Solid*	24			0.20	0.66	1	mg/Kg	180896		05/16/06 2122	tds
	Zinc, Solid*	300			1.8	2.7	1	mg/Kg	180896		05/16/06 2122	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	9.9	U		5.7	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	beta-BHC, 3541 Solid*	9.9	U		8.2	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	delta-BHC, 3541 Solid*	9.9	U		8.2	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	gamma-BHC (Lindane), 3541 Solid*	9.9	U		5.7	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Heptachlor, 3541 Solid*	9.9	U		5.3	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Aldrin, 3541 Solid*	9.9	U		5.2	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Heptachlor epoxide, 3541 Solid*	9.9	U		5.5	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endosulfan I, 3541 Solid*	9.9	U		5.8	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Dieldrin, 3541 Solid*	9.9	U		5.2	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	4,4'-DDE, 3541 Solid*	9.9	U		5.5	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endrin, 3541 Solid*	9.9	U		5.5	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endosulfan II, 3541 Solid*	9.9	U		5.8	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	4,4'-DDD, 3541 Solid*	9.9	U		6.4	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endosulfan sulfate, 3541 Solid*	9.9	U		6.4	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	4,4'-DDT, 3541 Solid*	9.9	U		5.4	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Methoxychlor, 3541 Solid*	48	U		8.2	48	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	alpha-Chlordane, 3541 Solid*	9.9	U		5.2	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	gamma-Chlordane, 3541 Solid*	9.9	U		0.88	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Toxaphene, 3541 Solid*	98	U		64	98	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endrin aldehyde, 3541 Solid*	9.9	U		7.0	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Endrin ketone, 3541 Solid*	9.9	U		7.6	9.9	5.00000	ug/Kg	181784		05/26/06 1046	kdl
	Atrazine, 3541 Solid*	980	U		390	980	5.00000	ug/Kg	181784		05/26/06 1046	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	20	U		6.5	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
	Aroclor 1221, 3541 Solid*	20	U		5.4	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
	Aroclor 1232, 3541 Solid*	20	U		5.3	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
	Aroclor 1242, 3541 Solid*	20	U		5.7	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	28		T	4.2	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
	Aroclor 1254, 3541 Solid*	26			4.3	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
	Aroclor 1260, 3541 Solid*	11	J		3.9	20	1.00000	ug/Kg	181733		05/26/06 1311	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	130	U		35	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,3-Dichlorobenzene, Low Level Soil*	130	U		34	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,4-Dichlorobenzene, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,2-Dichlorobenzene, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzyl alcohol, Low Level Soil*	270	U		120	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Methylphenol (o-cresol), Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	130	U		35	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	130	U		30	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Hexachloroethane, Low Level Soil*	130	U		42	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	130	U		72	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Chlorophenol, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Nitrobenzene, Low Level Soil*	27	U		10	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	130	U		31	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	130	U		41	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzoic acid, Low Level Soil*	1300	U		270	1300	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Isophorone, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4-Dimethylphenol, Low Level Soil*	270	U		46	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Hexachlorobutadiene, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Naphthalene, Low Level Soil*	27	U		6.3	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4-Dichlorophenol, Low Level Soil*	270	U		44	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Chloroaniline, Low Level Soil*	540	U		130	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4,6-Trichlorophenol, Low Level Soil*	270	U		35	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4,5-Trichlorophenol, Low Level Soil*	270	U		60	270	1.00000	ug/Kg	181716		05/25/06 0000	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Methylnaphthalene, Low Level Soil*	130	U		34	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Nitroaniline, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Chloronaphthalene, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Chloro-3-methylphenol, Low Level Soil*	270	U		60	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,6-Dinitrotoluene, Low Level Soil*	130	U		31	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2-Nitrophenol, Low Level Soil*	270	U		74	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	3-Nitroaniline, Low Level Soil*	270	U		49	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Dimethyl phthalate, Low Level Soil*	130	U		13	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4-Dinitrophenol, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Acenaphthylene, Low Level Soil*	45			7.0	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	2,4-Dinitrotoluene, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Acenaphthene, Low Level Soil*	9.6	J		5.3	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Dibenzofuran, Low Level Soil*	130	U		18	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Nitrophenol, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Fluorene, Low Level Soil*	18	J	H	6.2	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Nitroaniline, Low Level Soil*	270	U		56	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	130	U		23	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Hexachlorobenzene, Low Level Soil*	54	U		20	54	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Diethyl phthalate, Low Level Soil*	130	U		14	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	130	U		19	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Pentachlorophenol, Low Level Soil*	540	U		160	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	n-Nitrosodiphenylamine, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	270	U		43	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Phenanthrene, Low Level Soil*	36			4.3	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Anthracene, Low Level Soil*	38			2.9	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Carbazole, Low Level Soil*	130	U		19	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Di-n-butyl phthalate, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzidine, Low Level Soil*	1300	U	*	1300	1300	1.00000	ug/Kg	181716		05/25/06 0000	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	170		H	4.9	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Pyrene, Low Level Soil*	220		H	6.0	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Butyl benzyl phthalate, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzo(a)anthracene, Low Level Soil*	120			5.9	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Chrysene, Low Level Soil*	160		H	7.0	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	3,3-Dichlorobenzidine, Low Level Soil*	540	U		110	540	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	120	J		64	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Di-n-octyl phthalate, Low Level Soil*	130	U		24	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzo(b)fluoranthene, Low Level Soil*	110		M	5.2	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzo(k)fluoranthene, Low Level Soil*	120		M	8.2	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzo(a)pyrene, Low Level Soil*	140			4.5	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	76			8.8	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	38			5.8	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzo(ghi)perylene, Low Level Soil*	98			6.0	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Caprolactam, Low Level Soil*	270	U		130	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Benzaldehyde, Low Level Soil*	270	U		120	270	1.00000	ug/Kg	181716		05/25/06 0000	glr
	Acetophenone, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,1'-Biphenyl, Low Level Soil*	27	U		8.8	27	1.00000	ug/Kg	181716		05/25/06 0000	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	130	U		31	130	1.00000	ug/Kg	181716		05/25/06 0000	glr
Method	% Solids Determination											
	% Solids, Solid	61.9			0.10	0.10	1	%	181045		05/18/06 1130	pfk
	% Moisture, Solid	38.1			0.10	0.10	1	%	181045		05/18/06 1130	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	250			19	29	1	mg/Kg	181667		05/25/06 1605	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	61000			67	3700	1	mg/Kg	181745		05/26/06 1222	kd

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.21	B		0.1	0.8	1	mg/Kg	180914		05/15/06 1248	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	14000			600	2600	1	mg/Kg	180912		05/17/06 1137	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.507					1	* g/cc	181472		05/18/06 1204	cls
9045C	pH (Soil)											
	pH, Solid	7.2			0.2	0.2	1	pH Units	180829		05/16/06 1301	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	850			30	110	10	mg/Kg	181344		05/23/06 0829	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1400			55	220	5	mg/Kg	181188		05/19/06 1400	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.23			0.0099	0.053	1	mg/Kg	181094		05/17/06 1513	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			7.0	28	1	mg/Kg	180896		05/16/06 2126	tds
	Antimony, Solid*	0.67	B		0.60	2.8	1	mg/Kg	180896		05/16/06 2126	tds
	Arsenic, Solid*	6.9			0.51	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Barium, Solid*	130			0.1	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Beryllium, Solid*	0.86			0.025	0.55	1	mg/Kg	180896		05/16/06 2126	tds
	Cadmium, Solid*	1.6			0.080	0.28	1	mg/Kg	180896		05/16/06 2126	tds
	Calcium, Solid*	14000			2.5	14	1	mg/Kg	180896		05/16/06 2126	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 270
Date Sampled.....: 05/08/2006
Time Sampled.....: 13:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-6
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	34			0.14	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Cobalt, Solid*	10			0.17	0.69	1	mg/Kg	180896		05/16/06 2126	tds
	Copper, Solid*	36			0.30	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Iron, Solid*	24000			3.0	14	1	mg/Kg	180896		05/16/06 2126	tds
	Lead, Solid*	34			0.35	0.69	1	mg/Kg	180896		05/16/06 2126	tds
	Magnesium, Solid*	7100			1.4	14	1	mg/Kg	180896		05/16/06 2126	tds
	Manganese, Solid*	350			0.073	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Molybdenum, Solid*	1.8			0.64	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Nickel, Solid*	31			0.66	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Potassium, Solid*	1700			8.3	69	1	mg/Kg	180896		05/16/06 2126	tds
	Selenium, Solid*	0.81	B		0.62	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Silver, Solid*	0.56	B		0.14	0.69	1	mg/Kg	180896		05/16/06 2126	tds
	Sodium, Solid*	120	B		110	140	1	mg/Kg	180896		05/16/06 2126	tds
	Thallium, Solid*	1.4	U		0.79	1.4	1	mg/Kg	180896		05/16/06 2126	tds
	Vanadium, Solid*	29			0.21	0.69	1	mg/Kg	180896		05/16/06 2126	tds
	Zinc, Solid*	150			1.9	2.8	1	mg/Kg	180896		05/16/06 2126	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	12	U		7.1	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	beta-BHC, 3541 Solid*	12	U		10	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	delta-BHC, 3541 Solid*	12	U		10	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	gamma-BHC (Lindane), 3541 Solid*	12	U		7.2	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Heptachlor, 3541 Solid*	12	U		6.7	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Aldrin, 3541 Solid*	12	U		6.5	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Heptachlor epoxide, 3541 Solid*	12	U		6.9	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endosulfan I, 3541 Solid*	12	U		7.3	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Dieldrin, 3541 Solid*	12	U		6.5	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	4,4'-DDE, 3541 Solid*	12	U		6.9	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endrin, 3541 Solid*	12	U		6.9	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endosulfan II, 3541 Solid*	12	U		7.3	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	4,4'-DDD, 3541 Solid*	12	U		8.0	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endosulfan sulfate, 3541 Solid*	12	U		8.0	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	4,4'-DDT, 3541 Solid*	12	U		6.8	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Methoxychlor, 3541 Solid*	61	U		10	61	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	alpha-Chlordane, 3541 Solid*	12	U		6.5	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	gamma-Chlordane, 3541 Solid*	12	U		1.1	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Toxaphene, 3541 Solid*	120	U		80	120	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endrin aldehyde, 3541 Solid*	12	U		8.8	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Endrin ketone, 3541 Solid*	12	U		9.5	12	5.00000	ug/Kg	181784		05/26/06 1110	kdl
	Atrazine, 3541 Solid*	1400			490	1200	5.00000	ug/Kg	181784		05/26/06 1110	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	24	U		8.2	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
	Aroclor 1221, 3541 Solid*	24	U		6.7	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
	Aroclor 1232, 3541 Solid*	24	U		6.6	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
	Aroclor 1242, 3541 Solid*	24	U		7.2	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	34			5.3	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
	Aroclor 1254, 3541 Solid*	26			5.4	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
	Aroclor 1260, 3541 Solid*	11	J	a	4.8	24	1.00000	ug/Kg	181733		05/25/06 1809	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	170	U		47	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	170	U		44	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,3-Dichlorobenzene, Low Level Soil*	170	U		42	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,4-Dichlorobenzene, Low Level Soil*	170	U		37	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,2-Dichlorobenzene, Low Level Soil*	170	U		49	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzyl alcohol, Low Level Soil*	330	U		150	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Methylphenol (o-cresol), Low Level Soil*	170	U		36	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	170	U		43	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	170	U		37	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Hexachloroethane, Low Level Soil*	170	U		52	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	170	U		90	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Chlorophenol, Low Level Soil*	170	U		40	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Nitrobenzene, Low Level Soil*	33	U		13	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	170	U		38	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	170	U		51	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzoic acid, Low Level Soil*	1700	U		340	1700	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Isophorone, Low Level Soil*	170	U		28	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4-Dimethylphenol, Low Level Soil*	330	U		57	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Hexachlorobutadiene, Low Level Soil*	170	U		47	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Naphthalene, Low Level Soil*	33	U		7.8	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4-Dichlorophenol, Low Level Soil*	330	U		55	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Chloroaniline, Low Level Soil*	670	U		160	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4,6-Trichlorophenol, Low Level Soil*	330	U		44	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4,5-Trichlorophenol, Low Level Soil*	330	U		74	330	1.00000	ug/Kg	181716		05/25/06 0022	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	670	U		260	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Methylnaphthalene, Low Level Soil*	170	U		42	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Nitroaniline, Low Level Soil*	170	U		27	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Chloronaphthalene, Low Level Soil*	170	U		37	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Chloro-3-methylphenol, Low Level Soil*	330	U		75	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,6-Dinitrotoluene, Low Level Soil*	170	U		39	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2-Nitrophenol, Low Level Soil*	330	U		92	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	3-Nitroaniline, Low Level Soil*	330	U		61	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Dimethyl phthalate, Low Level Soil*	170	U		16	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4-Dinitrophenol, Low Level Soil*	670	U		260	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Acenaphthylene, Low Level Soil*	29	J		8.7	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	2,4-Dinitrotoluene, Low Level Soil*	170	U		28	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Acenaphthene, Low Level Soil*	33	U		6.6	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Dibenzofuran, Low Level Soil*	170	U		22	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Nitrophenol, Low Level Soil*	670	U		260	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Fluorene, Low Level Soil*	17	J		7.7	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Nitroaniline, Low Level Soil*	330	U		69	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	170	U		28	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Hexachlorobenzene, Low Level Soil*	67	U		25	67	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Diethyl phthalate, Low Level Soil*	170	U		18	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	170	U		24	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Pentachlorophenol, Low Level Soil*	670	U		200	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	n-Nitrosodiphenylamine, Low Level Soil*	170	U		20	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	330	U		53	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Phenanthrene, Low Level Soil*	40		H	5.3	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Anthracene, Low Level Soil*	37		H	3.6	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Carbazole, Low Level Soil*	170	U		24	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Di-n-butyl phthalate, Low Level Soil*	170	U		27	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzidine, Low Level Soil*	1700	U	*	1700	1700	1.00000	ug/Kg	181716		05/25/06 0022	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	190		H	6.1	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Pyrene, Low Level Soil*	190		H	7.5	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Butyl benzyl phthalate, Low Level Soil*	170	U		20	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzo(a)anthracene, Low Level Soil*	110		M	7.3	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Chrysene, Low Level Soil*	150		M	8.7	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	3,3-Dichlorobenzidine, Low Level Soil*	670	U		140	670	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	170	U		80	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Di-n-octyl phthalate, Low Level Soil*	170	U		30	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzo(b)fluoranthene, Low Level Soil*	84		M	6.5	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzo(k)fluoranthene, Low Level Soil*	110		M	10	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzo(a)pyrene, Low Level Soil*	110		M	5.6	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	63		H	11	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	30	J		7.2	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzo(ghi)perylene, Low Level Soil*	82		H	7.4	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Caprolactam, Low Level Soil*	330	U		160	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Benzaldehyde, Low Level Soil*	330	U		150	330	1.00000	ug/Kg	181716		05/25/06 0022	glr
	Acetophenone, Low Level Soil*	170	U		47	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,1'-Biphenyl, Low Level Soil*	33	U		11	33	1.00000	ug/Kg	181716		05/25/06 0022	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	170	U		39	170	1.00000	ug/Kg	181716		05/25/06 0022	glr
Method	% Solids Determination											
	% Solids, Solid	49.8			0.10	0.10	1	%	181045		05/18/06 1131	pfk
	% Moisture, Solid	50.2			0.10	0.10	1	%	181045		05/18/06 1131	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	430			26	40	1	mg/Kg	181667		05/25/06 1605	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	80000			84	4700	1	mg/Kg	181745		05/26/06 1225	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.24	B		0.1	0.7	1	mg/Kg	180914		05/15/06 1248	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	19000			500	2100	1	mg/Kg	180912		05/17/06 1204	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.421					1	* g/cc	181472		05/18/06 1224	cls
9045C	pH (Soil)											
	pH, Solid	7.1			0.2	0.2	1	pH Units	180829		05/16/06 1304	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	790			42	150	10	mg/Kg	181344		05/23/06 0829	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	2300			80	320	5	mg/Kg	181188		05/19/06 1401	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.30			0.012	0.066	1	mg/Kg	181094		05/17/06 1515	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	17000			9.7	38	1	mg/Kg	180896		05/16/06 2131	tds
	Antimony, Solid*	3.8	U		0.82	3.8	1	mg/Kg	180896		05/16/06 2131	tds
	Arsenic, Solid*	8.4			0.71	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Barium, Solid*	160			0.14	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Beryllium, Solid*	1.0			0.035	0.77	1	mg/Kg	180896		05/16/06 2131	tds
	Cadmium, Solid*	1.8			0.11	0.38	1	mg/Kg	180896		05/16/06 2131	tds
	Calcium, Solid*	16000			3.5	19	1	mg/Kg	180896		05/16/06 2131	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 271
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-7
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	41			0.19	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Cobalt, Solid*	11			0.23	0.96	1	mg/Kg	180896		05/16/06 2131	tds
	Copper, Solid*	41			0.42	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Iron, Solid*	27000			4.2	19	1	mg/Kg	180896		05/16/06 2131	tds
	Lead, Solid*	41			0.48	0.96	1	mg/Kg	180896		05/16/06 2131	tds
	Magnesium, Solid*	7100			1.9	19	1	mg/Kg	180896		05/16/06 2131	tds
	Manganese, Solid*	450			0.10	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Molybdenum, Solid*	2.2			0.88	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Nickel, Solid*	34			0.92	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Potassium, Solid*	2200			12	96	1	mg/Kg	180896		05/16/06 2131	tds
	Selenium, Solid*	1.9	U		0.86	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Silver, Solid*	0.58	B		0.19	0.96	1	mg/Kg	180896		05/16/06 2131	tds
	Sodium, Solid*	190	U		150	190	1	mg/Kg	180896		05/16/06 2131	tds
	Thallium, Solid*	1.9	U		1.1	1.9	1	mg/Kg	180896		05/16/06 2131	tds
	Vanadium, Solid*	34			0.29	0.96	1	mg/Kg	180896		05/16/06 2131	tds
	Zinc, Solid*	190			2.6	3.8	1	mg/Kg	180896		05/16/06 2131	tds

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	beta-BHC, 3541 Solid*	21	U		17	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	delta-BHC, 3541 Solid*	21	U		17	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	gamma-BHC (Lindane), 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Heptachlor, 3541 Solid*	21	U		11	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Aldrin, 3541 Solid*	21	U		11	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Heptachlor epoxide, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endosulfan I, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Dieldrin, 3541 Solid*	21	U		11	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	4,4'-DDE, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endrin, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endosulfan II, 3541 Solid*	21	U		12	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	4,4'-DDD, 3541 Solid*	21	U		14	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endosulfan sulfate, 3541 Solid*	21	U		14	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	4,4'-DDT, 3541 Solid*	21	U		11	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Methoxychlor, 3541 Solid*	100	U		17	100	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	alpha-Chlordane, 3541 Solid*	21	U		11	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	gamma-Chlordane, 3541 Solid*	21	U		1.9	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Toxaphene, 3541 Solid*	210	U		140	210	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endrin aldehyde, 3541 Solid*	21	U		15	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Endrin ketone, 3541 Solid*	21	U		16	21	10.0000	ug/Kg	181784		05/26/06 1135	kdl
	Atrazine, 3541 Solid*	2100	U		830	2100	10.0000	ug/Kg	181784		05/26/06 1135	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	21	U		6.9	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
	Aroclor 1221, 3541 Solid*	21	U		5.7	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
	Aroclor 1232, 3541 Solid*	21	U		5.6	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
	Aroclor 1242, 3541 Solid*	21	U		6.1	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	31			4.4	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
	Aroclor 1254, 3541 Solid*	23			4.6	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
	Aroclor 1260, 3541 Solid*	12	J		4.1	21	1.00000	ug/Kg	181733		05/25/06 1834	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	140	U		39	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	140	U		37	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,3-Dichlorobenzene, Low Level Soil*	140	U		35	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,4-Dichlorobenzene, Low Level Soil*	140	U		31	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,2-Dichlorobenzene, Low Level Soil*	140	U		41	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzyl alcohol, Low Level Soil*	280	U		120	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Methylphenol (o-cresol), Low Level Soil*	140	U		30	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	140	U		36	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	140	U		31	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Hexachloroethane, Low Level Soil*	140	U		43	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	140	U		75	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Chlorophenol, Low Level Soil*	140	U		33	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Nitrobenzene, Low Level Soil*	28	U		11	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	140	U		32	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	140	U		43	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzoic acid, Low Level Soil*	1400	U		280	1400	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Isophorone, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4-Dimethylphenol, Low Level Soil*	280	U		48	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Hexachlorobutadiene, Low Level Soil*	140	U		39	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Naphthalene, Low Level Soil*	36			6.5	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4-Dichlorophenol, Low Level Soil*	280	U		46	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Chloroaniline, Low Level Soil*	560	U		130	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4,6-Trichlorophenol, Low Level Soil*	280	U		37	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4,5-Trichlorophenol, Low Level Soil*	280	U		62	280	1.00000	ug/Kg	181716		05/25/06 0044	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	560	U		220	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Methylnaphthalene, Low Level Soil*	93	J	M	35	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Nitroaniline, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Chloronaphthalene, Low Level Soil*	140	U		31	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Chloro-3-methylphenol, Low Level Soil*	280	U		63	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,6-Dinitrotoluene, Low Level Soil*	140	U		33	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2-Nitrophenol, Low Level Soil*	280	U		77	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	3-Nitroaniline, Low Level Soil*	280	U		51	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Dimethyl phthalate, Low Level Soil*	140	U		13	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4-Dinitrophenol, Low Level Soil*	560	U		220	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Acenaphthylene, Low Level Soil*	260			7.3	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	2,4-Dinitrotoluene, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Acenaphthene, Low Level Soil*	71			5.5	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Dibenzofuran, Low Level Soil*	140	U		18	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Nitrophenol, Low Level Soil*	560	U		220	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Fluorene, Low Level Soil*	97		H	6.4	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Nitroaniline, Low Level Soil*	280	U		58	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	140	U		23	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Hexachlorobenzene, Low Level Soil*	56	U		21	56	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Diethyl phthalate, Low Level Soil*	140	U		15	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	140	U		20	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Pentachlorophenol, Low Level Soil*	560	U		170	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	n-Nitrosodiphenylamine, Low Level Soil*	140	U		17	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	280	U		44	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Phenanthrene, Low Level Soil*	370			4.4	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Anthracene, Low Level Soil*	280			3.0	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Carbazole, Low Level Soil*	140	U		20	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Di-n-butyl phthalate, Low Level Soil*	140	U		23	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzidine, Low Level Soil*	1400	U	*	1400	1400	1.00000	ug/Kg	181716		05/25/06 0044	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	1700		H	5.1	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Pyrene, Low Level Soil*	2100			25	110	4.00000	ug/Kg	181716	D1	05/25/06 1759	glr
	Butyl benzyl phthalate, Low Level Soil*	140	U		17	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzo(a)anthracene, Low Level Soil*	1900		M	6.1	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Chrysene, Low Level Soil*	790		M	7.3	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	3,3-Dichlorobenzidine, Low Level Soil*	560	U		120	560	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	140	U		67	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Di-n-octyl phthalate, Low Level Soil*	140	U		25	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzo(b)fluoranthene, Low Level Soil*	800		M	5.4	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzo(k)fluoranthene, Low Level Soil*	660		M	8.5	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzo(a)pyrene, Low Level Soil*	1200		M	4.7	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	460			9.2	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	230			6.0	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzo(ghi)perylene, Low Level Soil*	550			6.2	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Caprolactam, Low Level Soil*	280	U		130	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Benzaldehyde, Low Level Soil*	280	U		130	280	1.00000	ug/Kg	181716		05/25/06 0044	glr
	Acetophenone, Low Level Soil*	140	U		39	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,1'-Biphenyl, Low Level Soil*	28	U		9.2	28	1.00000	ug/Kg	181716		05/25/06 0044	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	140	U		33	140	1.00000	ug/Kg	181716		05/25/06 0044	glr
Method	% Solids Determination											
	% Solids, Solid	59.4			0.10	0.10	1	%	181045		05/18/06 1132	pfk
	% Moisture, Solid	40.6			0.10	0.10	1	%	181045		05/18/06 1132	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	480			20	31	1	mg/Kg	181667		05/25/06 1606	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	73000			72	4000	1	mg/Kg	181745		05/26/06 1228	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.36	B		0.09	0.50	1	mg/Kg	180914		05/15/06 1249	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	16000			440	1900	1	mg/Kg	180912		05/17/06 1221	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.614					1	* g/cc	181472		05/18/06 1245	cls
9045C	pH (Soil)											
	pH, Solid	7.3			0.2	0.2	1	pH Units	180829		05/16/06 1307	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	960			26	96	10	mg/Kg	181344		05/23/06 0829	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1800			62	250	5	mg/Kg	181188		05/19/06 1401	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.96			0.051	0.28	5	mg/Kg	181094		05/17/06 1616	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	13000			7.3	29	1	mg/Kg	180896		05/16/06 2136	tds
	Antimony, Solid*	2.9	U		0.62	2.9	1	mg/Kg	180896		05/16/06 2136	tds
	Arsenic, Solid*	12			0.54	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Barium, Solid*	130			0.10	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Beryllium, Solid*	0.75			0.026	0.58	1	mg/Kg	180896		05/16/06 2136	tds
	Cadmium, Solid*	3.2			0.084	0.29	1	mg/Kg	180896		05/16/06 2136	tds
	Calcium, Solid*	19000			2.7	14	1	mg/Kg	180896		05/16/06 2136	tds

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 272
Date Sampled.....: 05/08/2006
Time Sampled.....: 14:55
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-8
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	49			0.14	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Cobalt, Solid*	9.6			0.17	0.72	1	mg/Kg	180896		05/16/06 2136	tds
	Copper, Solid*	59			0.32	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Iron, Solid*	25000			3.2	14	1	mg/Kg	180896		05/16/06 2136	tds
	Lead, Solid*	70			0.36	0.72	1	mg/Kg	180896		05/16/06 2136	tds
	Magnesium, Solid*	10000			1.5	14	1	mg/Kg	180896		05/16/06 2136	tds
	Manganese, Solid*	410			0.077	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Molybdenum, Solid*	2.0			0.67	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Nickel, Solid*	29			0.69	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Potassium, Solid*	1700			8.7	72	1	mg/Kg	180896		05/16/06 2136	tds
	Selenium, Solid*	0.85	B		0.65	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Silver, Solid*	1.1			0.14	0.72	1	mg/Kg	180896		05/16/06 2136	tds
	Sodium, Solid*	170			110	140	1	mg/Kg	180896		05/16/06 2136	tds
	Thallium, Solid*	1.4	U		0.82	1.4	1	mg/Kg	180896		05/16/06 2136	tds
	Vanadium, Solid*	26			0.22	0.72	1	mg/Kg	180896		05/16/06 2136	tds
	Zinc, Solid*	270			2.0	2.9	1	mg/Kg	180896		05/16/06 2136	tds

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	11	U		6.2	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	beta-BHC, 3541 Solid*	11	U		9.0	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	delta-BHC, 3541 Solid*	11	U		9.0	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	gamma-BHC (Lindane), 3541 Solid*	11	U		6.3	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Heptachlor, 3541 Solid*	11	U		5.8	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Aldrin, 3541 Solid*	11	U		5.7	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Heptachlor epoxide, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endosulfan I, 3541 Solid*	11	U		6.4	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Dieldrin, 3541 Solid*	11	U		5.7	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	4,4'-DDE, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endrin, 3541 Solid*	11	U		6.1	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endosulfan II, 3541 Solid*	11	U		6.4	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	4,4'-DDD, 3541 Solid*	11	U		7.1	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endosulfan sulfate, 3541 Solid*	11	U		7.1	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	4,4'-DDT, 3541 Solid*	11	U		6.0	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Methoxychlor, 3541 Solid*	53	U		9.0	53	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	alpha-Chlordane, 3541 Solid*	11	U		5.7	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	gamma-Chlordane, 3541 Solid*	11	U		0.96	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Toxaphene, 3541 Solid*	110	U		71	110	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endrin aldehyde, 3541 Solid*	11	U		7.7	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Endrin ketone, 3541 Solid*	11	U		8.4	11	5.00000	ug/Kg	181784		05/26/06 1225	kdl
	Atrazine, 3541 Solid*	1100	U		430	1100	5.00000	ug/Kg	181784		05/26/06 1225	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	21	U		7.2	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
	Aroclor 1221, 3541 Solid*	21	U		5.9	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
	Aroclor 1232, 3541 Solid*	21	U		5.8	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
	Aroclor 1242, 3541 Solid*	21	U		6.3	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	58			4.6	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
	Aroclor 1254, 3541 Solid*	55			4.8	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
	Aroclor 1260, 3541 Solid*	21	J		4.2	21	1.00000	ug/Kg	181733		05/25/06 1859	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	150	U		42	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	150	U		39	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,3-Dichlorobenzene, Low Level Soil*	150	U		37	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,4-Dichlorobenzene, Low Level Soil*	150	U		33	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,2-Dichlorobenzene, Low Level Soil*	150	U		43	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzyl alcohol, Low Level Soil*	290	U		130	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Methylphenol (o-cresol), Low Level Soil*	150	U		32	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	150	U		38	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	150	U		33	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Hexachloroethane, Low Level Soil*	150	U		46	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	150	U		80	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Chlorophenol, Low Level Soil*	150	U		35	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Nitrobenzene, Low Level Soil*	29	U		12	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	150	U		34	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	150	U		45	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzoic acid, Low Level Soil*	1500	U		300	1500	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Isophorone, Low Level Soil*	150	U		25	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4-Dimethylphenol, Low Level Soil*	290	U		50	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Hexachlorobutadiene, Low Level Soil*	150	U		42	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Naphthalene, Low Level Soil*	29	U		6.9	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4-Dichlorophenol, Low Level Soil*	290	U		49	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Chloroaniline, Low Level Soil*	590	U		140	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4,6-Trichlorophenol, Low Level Soil*	290	U		39	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4,5-Trichlorophenol, Low Level Soil*	290	U		66	290	1.00000	ug/Kg	181716		05/25/06 0106	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	590	U		230	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Methylnaphthalene, Low Level Soil*	150	U		37	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Nitroaniline, Low Level Soil*	150	U		24	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Chloronaphthalene, Low Level Soil*	150	U		33	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Chloro-3-methylphenol, Low Level Soil*	290	U		66	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,6-Dinitrotoluene, Low Level Soil*	150	U		35	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2-Nitrophenol, Low Level Soil*	290	U		82	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	3-Nitroaniline, Low Level Soil*	290	U		54	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Dimethyl phthalate, Low Level Soil*	150	U		14	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4-Dinitrophenol, Low Level Soil*	590	U		240	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Acenaphthylene, Low Level Soil*	29	U		7.7	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	2,4-Dinitrotoluene, Low Level Soil*	150	U		25	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Acenaphthene, Low Level Soil*	10	J		5.8	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Dibenzofuran, Low Level Soil*	150	U		19	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Nitrophenol, Low Level Soil*	590	U		230	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Fluorene, Low Level Soil*	17	J		6.8	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Nitroaniline, Low Level Soil*	290	U		61	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	150	U		25	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Hexachlorobenzene, Low Level Soil*	59	U		22	59	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Diethyl phthalate, Low Level Soil*	150	U		16	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	150	U		21	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Pentachlorophenol, Low Level Soil*	590	U		180	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	n-Nitrosodiphenylamine, Low Level Soil*	150	U		18	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	290	U		47	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Phenanthrene, Low Level Soil*	63		H	4.7	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Anthracene, Low Level Soil*	50			3.2	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Carbazole, Low Level Soil*	150	U		21	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Di-n-butyl phthalate, Low Level Soil*	150	U		24	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzidine, Low Level Soil*	1500	U	*	1500	1500	1.00000	ug/Kg	181716		05/25/06 0106	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	240			5.4	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Pyrene, Low Level Soil*	250		H	6.6	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Butyl benzyl phthalate, Low Level Soil*	150	U		18	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzo(a)anthracene, Low Level Soil*	140			6.5	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Chrysene, Low Level Soil*	200			7.7	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	3,3-Dichlorobenzidine, Low Level Soil*	590	U		120	590	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	150	U		71	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Di-n-octyl phthalate, Low Level Soil*	150	U		27	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzo(b)fluoranthene, Low Level Soil*	120		M	5.8	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzo(k)fluoranthene, Low Level Soil*	140		M	9.0	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzo(a)pyrene, Low Level Soil*	180		M	5.0	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	81			9.7	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	38		H	6.4	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzo(ghi)perylene, Low Level Soil*	100			6.6	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Caprolactam, Low Level Soil*	290	U		140	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Benzaldehyde, Low Level Soil*	290	U		130	290	1.00000	ug/Kg	181716		05/25/06 0106	glr
	Acetophenone, Low Level Soil*	150	U		42	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,1'-Biphenyl, Low Level Soil*	29	U		9.7	29	1.00000	ug/Kg	181716		05/25/06 0106	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	150	U		35	150	1.00000	ug/Kg	181716		05/25/06 0106	glr
Method	% Solids Determination											
	% Solids, Solid	56.1			0.10	0.10	1	%	181045		05/18/06 1133	pfk
	% Moisture, Solid	43.9			0.10	0.10	1	%	181045		05/18/06 1133	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	330			21	32	1	mg/Kg	181667		05/25/06 1606	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	69000			85	4700	1	mg/Kg	181745		05/26/06 1231	kd

* In Description = Dry Wgt.

STL Chicago is part of Severn Trent Laboratories, Inc.

LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.22	B		0.1	0.6	1	mg/Kg	180914		05/15/06 1249	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	16000			540	2300	1	mg/Kg	180912		05/17/06 1243	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.589					1	* g/cc	181472		05/18/06 1306	cls
9045C	pH (Soil)											
	pH, Solid	7.2			0.2	0.2	1	pH Units	180829		05/16/06 1313	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	550			29	110	10	mg/Kg	181344		05/23/06 0830	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1800			68	270	5	mg/Kg	181188		05/19/06 1402	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.32			0.011	0.059	1	mg/Kg	181094		05/17/06 1524	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	16000			8.9	35	1	mg/Kg	180896		05/16/06 2141	tds
	Antimony, Solid*	3.5	U		0.76	3.5	1	mg/Kg	180896		05/16/06 2141	tds
	Arsenic, Solid*	6.2			0.65	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Barium, Solid*	150			0.13	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Beryllium, Solid*	0.92			0.032	0.71	1	mg/Kg	180896		05/16/06 2141	tds
	Cadmium, Solid*	2.6			0.10	0.35	1	mg/Kg	180896		05/16/06 2141	tds
	Calcium, Solid*	17000			3.2	18	1	mg/Kg	180896		05/16/06 2141	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 273
Date Sampled.....: 05/08/2006
Time Sampled.....: 15:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-9
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	46			0.18	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Cobalt, Solid*	11			0.21	0.88	1	mg/Kg	180896		05/16/06 2141	tds
	Copper, Solid*	42			0.39	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Iron, Solid*	28000			3.9	18	1	mg/Kg	180896		05/16/06 2141	tds
	Lead, Solid*	44			0.44	0.88	1	mg/Kg	180896		05/16/06 2141	tds
	Magnesium, Solid*	7300			1.8	18	1	mg/Kg	180896		05/16/06 2141	tds
	Manganese, Solid*	370			0.093	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Molybdenum, Solid*	2.1			0.81	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Nickel, Solid*	33			0.85	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Potassium, Solid*	1900			11	88	1	mg/Kg	180896		05/16/06 2141	tds
	Selenium, Solid*	1.3	B		0.79	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Silver, Solid*	0.83	B		0.18	0.88	1	mg/Kg	180896		05/16/06 2141	tds
	Sodium, Solid*	180	U		140	180	1	mg/Kg	180896		05/16/06 2141	tds
	Thallium, Solid*	1.8	U		1.0	1.8	1	mg/Kg	180896		05/16/06 2141	tds
	Vanadium, Solid*	31			0.26	0.88	1	mg/Kg	180896		05/16/06 2141	tds
	Zinc, Solid*	200			2.4	3.5	1	mg/Kg	180896		05/16/06 2141	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	26	U		15	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	beta-BHC, 3541 Solid*	26	U		21	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	delta-BHC, 3541 Solid*	26	U		21	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	gamma-BHC (Lindane), 3541 Solid*	26	U		15	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Heptachlor, 3541 Solid*	26	U		14	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Aldrin, 3541 Solid*	26	U		13	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Heptachlor epoxide, 3541 Solid*	26	U		14	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endosulfan I, 3541 Solid*	26	U		15	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Dieldrin, 3541 Solid*	26	U		13	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	4,4'-DDE, 3541 Solid*	26	U		14	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endrin, 3541 Solid*	26	U		14	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endosulfan II, 3541 Solid*	26	U		15	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	4,4'-DDD, 3541 Solid*	26	U		17	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endosulfan sulfate, 3541 Solid*	26	U		17	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	4,4'-DDT, 3541 Solid*	26	U		14	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Methoxychlor, 3541 Solid*	130	U		21	130	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	alpha-Chlordane, 3541 Solid*	26	U		13	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	gamma-Chlordane, 3541 Solid*	26	U		2.3	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Toxaphene, 3541 Solid*	250	U		170	250	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endrin aldehyde, 3541 Solid*	26	U		18	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Endrin ketone, 3541 Solid*	26	U		20	26	10.0000	ug/Kg	181784		05/26/06 1250	kdl
	Atrazine, 3541 Solid*	2500	U		1000	2500	10.0000	ug/Kg	181784		05/26/06 1250	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	25	U		8.5	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
	Aroclor 1221, 3541 Solid*	25	U		7.0	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
	Aroclor 1232, 3541 Solid*	25	U		6.8	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
	Aroclor 1242, 3541 Solid*	25	U		7.4	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	94			5.5	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
	Aroclor 1254, 3541 Solid*	79			5.6	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
	Aroclor 1260, 3541 Solid*	32			5.0	25	1.00000	ug/Kg	181733		05/25/06 1924	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	170	U		49	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	170	U		46	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,3-Dichlorobenzene, Low Level Soil*	170	U		44	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,4-Dichlorobenzene, Low Level Soil*	170	U		39	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,2-Dichlorobenzene, Low Level Soil*	170	U		51	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzyl alcohol, Low Level Soil*	340	U		150	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Methylphenol (o-cresol), Low Level Soil*	170	U		38	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	170	U		45	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	170	U		39	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Hexachloroethane, Low Level Soil*	170	U		54	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	170	U		94	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Chlorophenol, Low Level Soil*	170	U		42	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Nitrobenzene, Low Level Soil*	34	U		14	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	170	U		40	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	170	U		53	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzoic acid, Low Level Soil*	1700	U		360	1700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Isophorone, Low Level Soil*	170	U		29	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4-Dimethylphenol, Low Level Soil*	340	U		60	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Hexachlorobutadiene, Low Level Soil*	170	U		49	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Naphthalene, Low Level Soil*	19	J		8.1	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4-Dichlorophenol, Low Level Soil*	340	U		57	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Chloroaniline, Low Level Soil*	700	U		160	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4,6-Trichlorophenol, Low Level Soil*	340	U		46	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4,5-Trichlorophenol, Low Level Soil*	340	U		77	340	1.00000	ug/Kg	181716		05/25/06 0128	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	700	U		270	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Methylnaphthalene, Low Level Soil*	170	U		44	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Nitroaniline, Low Level Soil*	170	U		28	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Chloronaphthalene, Low Level Soil*	170	U		39	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Chloro-3-methylphenol, Low Level Soil*	340	U		78	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,6-Dinitrotoluene, Low Level Soil*	170	U		41	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2-Nitrophenol, Low Level Soil*	340	U		96	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	3-Nitroaniline, Low Level Soil*	340	U		64	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Dimethyl phthalate, Low Level Soil*	170	U		17	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4-Dinitrophenol, Low Level Soil*	700	U		280	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Acenaphthylene, Low Level Soil*	110		H	9.1	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	2,4-Dinitrotoluene, Low Level Soil*	170	U		29	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Acenaphthene, Low Level Soil*	16	J	H	6.9	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Dibenzofuran, Low Level Soil*	170	U		23	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Nitrophenol, Low Level Soil*	700	U		270	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Fluorene, Low Level Soil*	35		H	8.0	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Nitroaniline, Low Level Soil*	340	U		72	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	170	U		29	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Hexachlorobenzene, Low Level Soil*	70	U		26	70	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Diethyl phthalate, Low Level Soil*	170	U		19	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	170	U		25	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Pentachlorophenol, Low Level Soil*	700	U		210	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	n-Nitrosodiphenylamine, Low Level Soil*	170	U		21	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	340	U		55	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Phenanthrene, Low Level Soil*	180			5.5	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Anthracene, Low Level Soil*	120			3.8	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Carbazole, Low Level Soil*	170	U		25	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Di-n-butyl phthalate, Low Level Soil*	170	U		28	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzidine, Low Level Soil*	1700	U	*	1700	1700	1.00000	ug/Kg	181716		05/25/06 0128	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	700			6.4	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Pyrene, Low Level Soil*	690		H	7.8	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Butyl benzyl phthalate, Low Level Soil*	170	U		21	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzo(a)anthracene, Low Level Soil*	390		M	7.6	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Chrysene, Low Level Soil*	590		M	9.1	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	3,3-Dichlorobenzidine, Low Level Soil*	700	U		150	700	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	150	J		84	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Di-n-octyl phthalate, Low Level Soil*	170	U		31	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzo(b)fluoranthene, Low Level Soil*	300		M	6.8	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzo(k)fluoranthene, Low Level Soil*	390		M	11	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzo(a)pyrene, Low Level Soil*	510		M	5.8	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	230			11	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	110			7.5	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzo(ghi)perylene, Low Level Soil*	280			7.7	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Caprolactam, Low Level Soil*	340	U		160	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Benzaldehyde, Low Level Soil*	340	U		160	340	1.00000	ug/Kg	181716		05/25/06 0128	glr
	Acetophenone, Low Level Soil*	170	U		49	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,1'-Biphenyl, Low Level Soil*	34	U		11	34	1.00000	ug/Kg	181716		05/25/06 0128	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	170	U		41	170	1.00000	ug/Kg	181716		05/25/06 0128	glr
Method	% Solids Determination											
	% Solids, Solid	47.6			0.10	0.10	1	%	181045		05/18/06 1134	pfk
	% Moisture, Solid	52.4			0.10	0.10	1	%	181045		05/18/06 1134	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	540			25	38	1	mg/Kg	181667		05/25/06 1606	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	100000			110	5900	1	mg/Kg	181745		05/26/06 1233	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.34	B		0.1	0.7	1	mg/Kg	180914		05/15/06 1249	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	25000			460	2000	1	mg/Kg	180912		05/17/06 1350	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.390					1	* g/cc	181472		05/18/06 1326	cls
9045C	pH (Soil)											
	pH, Solid	7.1			0.2	0.2	1	pH Units	180829		05/16/06 1317	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	820			30	110	10	mg/Kg	181344		05/23/06 0830	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	2100			70	280	5	mg/Kg	181188		05/19/06 1402	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.55			0.013	0.069	1	mg/Kg	181094		05/17/06 1526	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	15000			9.8	39	1	mg/Kg	180896		05/16/06 2209	tds
	Antimony, Solid*	3.9	U		0.84	3.9	1	mg/Kg	180896		05/16/06 2209	tds
	Arsenic, Solid*	11			0.72	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Barium, Solid*	150			0.14	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Beryllium, Solid*	0.87			0.035	0.78	1	mg/Kg	180896		05/16/06 2209	tds
	Cadmium, Solid*	3.8			0.11	0.39	1	mg/Kg	180896		05/16/06 2209	tds
	Calcium, Solid*	32000			3.6	19	1	mg/Kg	180896		05/16/06 2209	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246484

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 274
Date Sampled.....: 05/08/2006
Time Sampled.....: 16:25
Sample Matrix.....: Sediment

Laboratory Sample ID: 246484-10
Date Received.....: 05/12/2006
Time Received.....: 10:30

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	56			0.19	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Cobalt, Solid*	9.6			0.23	0.97	1	mg/Kg	180896		05/16/06 2209	tds
	Copper, Solid*	58			0.43	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Iron, Solid*	25000			4.3	19	1	mg/Kg	180896		05/16/06 2209	tds
	Lead, Solid*	65			0.49	0.97	1	mg/Kg	180896		05/16/06 2209	tds
	Magnesium, Solid*	10000			2.0	19	1	mg/Kg	180896		05/16/06 2209	tds
	Manganese, Solid*	520			0.10	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Molybdenum, Solid*	2.2			0.89	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Nickel, Solid*	36			0.93	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Potassium, Solid*	2200			12	97	1	mg/Kg	180896		05/16/06 2209	tds
	Selenium, Solid*	1.9	U		0.88	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Silver, Solid*	1.2			0.19	0.97	1	mg/Kg	180896		05/16/06 2209	tds
	Sodium, Solid*	160	B		150	190	1	mg/Kg	180896		05/16/06 2209	tds
	Thallium, Solid*	1.9	U		1.1	1.9	1	mg/Kg	180896		05/16/06 2209	tds
	Vanadium, Solid*	29			0.29	0.97	1	mg/Kg	180896		05/16/06 2209	tds
	Zinc, Solid*	280			2.7	3.9	1	mg/Kg	180896		05/16/06 2209	tds

* In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 246484 Date: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Lab ID: 246484-1 Client ID: 265 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045	05/18/2006	1125	
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1206	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1245	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1000	
EDD	Electronic Data Deliverable	1					
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181050	181048	05/12/2006	1612	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2020	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1602	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1357	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295	05/26/2006	0433	5.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	1337	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0827	10
7470/7471	SW846 Digestion (Hg)	1	181048		05/12/2006	1430	
8270C	Semivolatile Organics	1	181716	181273	05/24/2006	2127	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	0910	
9045C	pH (Soil)	1	180829	180829	05/16/2006	1242	

Lab ID: 246484-2 Client ID: 266 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045	05/18/2006	1125	
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1208	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1246	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1021	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181050	181048	05/12/2006	1618	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2024	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1603	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1357	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295	05/26/2006	0458	5.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	1401	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0827	10
7470/7471	SW846 Digestion (Hg)	1	181048		05/12/2006	1430	
8270C	Semivolatile Organics	1	181716	181273	05/24/2006	2149	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	0937	
9045C	pH (Soil)	1	180829	180829	05/16/2006	1246	

Lab ID: 246484-3 Client ID: 267 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045	05/18/2006	1127	
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1214	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1247	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1102	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181050	181048	05/12/2006	1626	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2112	

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Job Number: 246484 — Date: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN: James Slowikowski

Lab ID: 246484-3 Client ID: 267 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1604	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1358	2
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	0906	5.00000
8082	PCB Analysis	1	181733	181309		05/25/2006	1541	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0828	10
7470/7471	SW846 Digestion (Hg)	1	181048			05/12/2006	1430	
8270C	Semivolatile Organics	1	181716	181273		05/24/2006	2255	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1019	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1252	

Lab ID: 246484-4 Client ID: 268 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045		05/18/2006	1128	
3050B	Acid Digestion: Solids (ICAP)	1	180647			05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1217	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914		05/15/2006	1247	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1123	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273			05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093		05/17/2006	1509	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647		05/16/2006	2117	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1604	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1359	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	0931	5.00000
8082	PCB Analysis	1	181733	181309		05/26/2006	1246	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0828	10
7470/7471	SW846 Digestion (Hg)	1	181093			05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273		05/24/2006	2317	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1033	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1255	

Lab ID: 246484-5 Client ID: 269 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045		05/18/2006	1129	
3050B	Acid Digestion: Solids (ICAP)	1	180647			05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1219	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914		05/15/2006	1247	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1143	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273			05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093		05/17/2006	1614	5
6010B	Metals Analysis (ICAP Trace)	1	180896	180647		05/16/2006	2122	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1605	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1359	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	0956	10.0000
8082	PCB Analysis	1	181733	181309		05/25/2006	1630	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0829	10
7470/7471	SW846 Digestion (Hg)	1	181093			05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273		05/24/2006	2338	1.00000
8270C	Semivolatile Organics	1	181716	181273		05/25/2006	1738	5.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1113	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1258	

Lab ID: 246484-6 Client ID: 270 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045		05/18/2006	1130	

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Job Number: 246484 Date: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Lab ID: 246484-6 Client ID: 270 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1222	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1248	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1204	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093	05/17/2006	1513	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2126	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1605	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1400	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295	05/26/2006	1046	5.00000
8082	PCB Analysis	1	181733	181309	05/26/2006	1311	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0829	10
7470/7471	SW846 Digestion (Hg)	1	181093		05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273	05/25/2006	0000	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	1137	
9045C	pH (Soil)	1	180829	180829	05/16/2006	1301	

Lab ID: 246484-7 Client ID: 271 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045	05/18/2006	1131	
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1225	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1248	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1224	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093	05/17/2006	1515	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2131	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1605	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1401	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295	05/26/2006	1110	5.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	1809	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0829	10
7470/7471	SW846 Digestion (Hg)	1	181093		05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273	05/25/2006	0022	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	1204	
9045C	pH (Soil)	1	180829	180829	05/16/2006	1304	

Lab ID: 246484-8 Client ID: 272 Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045	05/18/2006	1132	
3050B	Acid Digestion: Solids (ICAP)	1	180647		05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1228	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914	05/15/2006	1249	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1245	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273		05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093	05/17/2006	1616	5
6010B	Metals Analysis (ICAP Trace)	1	180896	180647	05/16/2006	2136	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1606	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1401	5

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LABORATORY CHRONICLE

Job Number: 246484 — Date: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN: James Slowikowski

Lab ID: 246484-8 Client ID: 272 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	1135	10.0000
8082	PCB Analysis	1	181733	181309		05/25/2006	1834	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0829	10
7470/7471	SW846 Digestion (Hg)	1	181093			05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273		05/25/2006	0044	1.00000
8270C	Semivolatile Organics	1	181716	181273		05/25/2006	1759	4.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1221	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1307	

Lab ID: 246484-9 Client ID: 273 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045		05/18/2006	1133	
3050B	Acid Digestion: Solids (ICAP)	1	180647			05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1231	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914		05/15/2006	1249	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1306	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273			05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093		05/17/2006	1524	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647		05/16/2006	2141	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1606	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1402	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	1225	5.00000
8082	PCB Analysis	1	181733	181309		05/25/2006	1859	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0830	10
7470/7471	SW846 Digestion (Hg)	1	181093			05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273		05/25/2006	0106	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1243	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1313	

Lab ID: 246484-10 Client ID: 274 — Date Recvd: 05/12/2006 Sample Date: 05/08/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	181045	181045		05/18/2006	1134	
3050B	Acid Digestion: Solids (ICAP)	1	180647			05/12/2006	1930	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1233	
9014/9010B	Cyanide (Colorimetric)	1	180914	180914		05/15/2006	1249	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1326	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181273			05/22/2006	1300	
7471A	Mercury (CVAA) Solids	1	181094	181093		05/17/2006	1526	
6010B	Metals Analysis (ICAP Trace)	1	180896	180647		05/16/2006	2209	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1606	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1402	5
8081A	Organochlorine Pesticide Analysis	1	181784	181295		05/26/2006	1250	10.0000
8082	PCB Analysis	1	181733	181309		05/25/2006	1924	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0830	10
7470/7471	SW846 Digestion (Hg)	1	181093			05/17/2006	1320	
8270C	Semivolatile Organics	1	181716	181273		05/25/2006	0128	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1350	
9045C	pH (Soil)	1	180829	180829		05/16/2006	1317	

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SURROGATE RECOVERIES REPORT

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: Organochlorine Pesticide Analysis Test Matrix...: 3541 Solid Prep Batch..: 181295
Method Code...: 8081 Batch(s).....: 181784

Lab ID	DT	Sample ID	Date	DCB	TCX
LCS			05/26/2006	78	65
MB			05/26/2006	75	58
246484- 1		265	05/26/2006	89	82
246484- 2		266	05/26/2006	82	73
246484- 2	MS	266	05/26/2006	85	82
246484- 2	MSD	266	05/26/2006	81	81
246484- 3		267	05/26/2006	92	81
246484- 4		268	05/26/2006	82	87
246484- 5		269	05/26/2006	78	83
246484- 6		270	05/26/2006	84	80
246484- 7		271	05/26/2006	75	71
246484- 8		272	05/26/2006	95	94
246484- 9		273	05/26/2006	87	86
246484- 10		274	05/26/2006	97	94

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	20 - 152
TCX	Tetrachloro-m-xylene (surr)	30 - 124

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SURROGATE RECOVERIES REPORT

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: PCB Analysis Test Matrix...: 3541 Solid Prep Batch..: 181309
Method Code...: 8082 Batch(s).....: 181733

Lab ID	DT	Sample ID	Date	DCB	TCX
LCS			05/25/2006	79	65
MB			05/25/2006	76	60
246484- 1		265	05/25/2006	79	78
246484- 2		266	05/25/2006	73	75
246484- 2	MS	266	05/25/2006	73	81
246484- 2	MSD	266	05/25/2006	70	76
246484- 3		267	05/25/2006	76	77
246484- 4		268	05/26/2006	70	75
246484- 5		269	05/25/2006	73	82
246484- 6		270	05/26/2006	72	69
246484- 7		271	05/25/2006	66*	63
246484- 8		272	05/25/2006	72	75
246484- 9		273	05/25/2006	73	72
246484- 10		274	05/25/2006	73	73

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	70 - 125
TCX	Tetrachloro-m-xylene (surr)	44 - 135

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SURROGATE RECOVERIES REPORT

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: Semivolatile Organics Test Matrix...: Low Level Soil Prep Batch..: 181273
Method Code...: 8270 Batch(s).....: 181716

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRD5	PHEND5	TERD14
LCS			05/24/2006	88	68	65	63	63	79
MB			05/24/2006	94	75	72	69	69	90
246484- 1		265	05/24/2006	84	63	59	55	60	70
246484- 2		266	05/24/2006	79	58	54	50	57	74
246484- 2 MS		266	05/24/2006	51	40*	39	36	43	46
246484- 2 MSD		266	05/24/2006	69	52	51	44	59	64
246484- 3		267	05/24/2006	90	62	49	45	56	79
246484- 4		268	05/24/2006	78	59	54	50	56	65
246484- 5		269	05/24/2006	83	58	49	47	56	71
246484- 5	D1	269	05/25/2006	73	58	46	49	57	65
246484- 6		270	05/25/2006	81	60	57	53	59	66
246484- 7		271	05/25/2006	49	45	46	43	46	44
246484- 8		272	05/25/2006	76	65	65	61	65	72
246484- 8	D1	272	05/25/2006	73	60	55	56	59	62
246484- 9		273	05/25/2006	50	42	42	39	43	44
246484- 10		274	05/25/2006	66	57	53	51	56	56

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol (surr)	20 - 150
2FLUBP	2-Fluorobiphenyl (surr)	41 - 108
2FLUPH	2-Fluorophenol (surr)	35 - 118
NITRD5	Nitrobenzene-d5 (surr)	22 - 108
PHEND5	Phenol-d5 (surr)	21 - 129
TERD14	Terphenyl-d14 (surr)	37 - 137

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06DWLCPFC	181295-002		05/26/2006	0408

Test Method.....: 8081A Equipment Code....: INST1516 Analyst...: kdl
Method Description.: Organochlorine Pesticide Analysis Batch.....: 181784

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	9.993		13.330	1.700 U	75	%	29-120	
beta-BHC, 3541 Solid	ug/Kg	10.950		13.330	1.700 U	82	%	51-123	
delta-BHC, 3541 Solid	ug/Kg	11.090		13.330	1.700 U	83	%	51-125	
gamma-BHC (Lindane), 3541 Solid	ug/Kg	10.577		13.330	1.700 U	79	%	37-121	
Heptachlor, 3541 Solid	ug/Kg	10.747		13.330	1.700 U	81	%	33-124	
Aldrin, 3541 Solid	ug/Kg	10.177		13.330	1.700 U	76	%	35-120	
Heptachlor epoxide, 3541 Solid	ug/Kg	11.113		13.330	1.700 U	83	%	51-116	
Endosulfan I, 3541 Solid	ug/Kg	10.830		13.330	1.700 U	81	%	27-100	
Dieldrin, 3541 Solid	ug/Kg	11.230		13.330	1.700 U	84	%	55-124	
4,4'-DDE, 3541 Solid	ug/Kg	11.463		13.330	1.700 U	86	%	59-120	
Endrin, 3541 Solid	ug/Kg	11.403		13.330	1.700 U	86	%	49-136	
Endosulfan II, 3541 Solid	ug/Kg	10.970		13.330	1.700 U	82	%	37-105	
4,4'-DDD, 3541 Solid	ug/Kg	11.833		13.330	1.700 U	89	%	59-130	
Endosulfan sulfate, 3541 Solid	ug/Kg	10.543		13.330	1.700 U	79	%	54-129	
4,4'-DDT, 3541 Solid	ug/Kg	11.787		13.330	1.700 U	88	%	58-130	
Methoxychlor, 3541 Solid	ug/Kg	11.273		13.330	8.300 U	85	%	57-132	
alpha-Chlordane, 3541 Solid	ug/Kg	11.073		13.330	1.700 U	83	%	64-123	
gamma-Chlordane, 3541 Solid	ug/Kg	11.187		13.330	1.700 U	84	%	59-121	
Endrin aldehyde, 3541 Solid	ug/Kg	10.483		13.330	1.700 U	79	%	31-110	
Endrin ketone, 3541 Solid	ug/Kg	10.663		13.330	1.700 U	80	%	52-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181295-001		05/26/2006	0343

Test Method.....: 8081A
Method Description.: Organochlorine Pesticide Analysis

Equipment Code....: INST1516
Batch.....: 181784

Analyst...: kdl

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	1.700	U						
beta-BHC, 3541 Solid	ug/Kg	1.700	U						
delta-BHC, 3541 Solid	ug/Kg	1.700	U						
gamma-BHC (Lindane), 3541 Solid	ug/Kg	1.700	U						
Heptachlor, 3541 Solid	ug/Kg	1.700	U						
Aldrin, 3541 Solid	ug/Kg	1.700	U						
Heptachlor epoxide, 3541 Solid	ug/Kg	1.700	U						
Endosulfan I, 3541 Solid	ug/Kg	1.700	U						
Dieldrin, 3541 Solid	ug/Kg	1.700	U						
4,4'-DDE, 3541 Solid	ug/Kg	1.700	U						
Endrin, 3541 Solid	ug/Kg	1.700	U						
Endosulfan II, 3541 Solid	ug/Kg	1.700	U						
4,4'-DDD, 3541 Solid	ug/Kg	1.700	U						
Endosulfan sulfate, 3541 Solid	ug/Kg	1.700	U						
4,4'-DDT, 3541 Solid	ug/Kg	1.700	U						
Methoxychlor, 3541 Solid	ug/Kg	8.300	U						
alpha-Chlordane, 3541 Solid	ug/Kg	1.700	U						
gamma-Chlordane, 3541 Solid	ug/Kg	1.700	U						
Toxaphene, 3541 Solid	ug/Kg	16.700	U						
Endrin aldehyde, 3541 Solid	ug/Kg	1.700	U						
Endrin ketone, 3541 Solid	ug/Kg	1.700	U						
Atrazine, 3541 Solid	ug/Kg	167.000	U						

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	06DWLCPFC	246484-2	5.00000	05/26/2006	0547

Test Method.....: 8081A Equipment Code....: INST1516 Analyst...: kdl
Method Description.: Organochlorine Pesticide Analysis Batch.....: 181784

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	14.751		88.860	11.323 U	83	%	29-120	
beta-BHC, 3541 Solid	ug/Kg	15.440		88.860	11.323 U	87	%	51-123	
delta-BHC, 3541 Solid	ug/Kg	16.551		88.860	11.323 U	93	%	51-125	
gamma-BHC (Lindane), 3541 Solid	ug/Kg	15.507		88.860	11.323 U	87	%	37-121	
Heptachlor, 3541 Solid	ug/Kg	14.751		88.860	11.323 U	83	%	33-124	
Aldrin, 3541 Solid	ug/Kg	14.551		88.860	11.323 U	82	%	35-120	
Heptachlor epoxide, 3541 Solid	ug/Kg	20.616		88.860	11.323 U	116	%	51-116	
Endosulfan I, 3541 Solid	ug/Kg	13.063		88.860	11.323 U	74	%	27-100	
Dieldrin, 3541 Solid	ug/Kg	15.662		88.860	11.323 U	88	%	55-124	
4,4'-DDE, 3541 Solid	ug/Kg	18.595		88.860	11.323 U	105	%	59-120	
Endrin, 3541 Solid	ug/Kg	13.752		88.860	11.323 U	77	%	49-136	
Endosulfan II, 3541 Solid	ug/Kg	12.130		88.860	11.323 U	68	%	37-105	
4,4'-DDD, 3541 Solid	ug/Kg	15.085		88.860	11.323 U	85	%	59-130	
Endosulfan sulfate, 3541 Solid	ug/Kg	15.440		88.860	11.323 U	87	%	54-129	
4,4'-DDT, 3541 Solid	ug/Kg	16.395		88.860	11.323 U	92	%	58-130	
Methoxychlor, 3541 Solid	ug/Kg	18.839	J	88.860	55.283 U	106	%	57-132	
alpha-Chlordane, 3541 Solid	ug/Kg	13.307		88.860	11.323 U	75	%	64-123	
gamma-Chlordane, 3541 Solid	ug/Kg	15.840		88.860	11.323 U	89	%	59-121	
Endrin aldehyde, 3541 Solid	ug/Kg	13.752		88.860	11.323 U	77	%	31-110	
Endrin ketone, 3541 Solid	ug/Kg	13.885		88.860	11.323 U	78	%	52-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	06DWLCPFC	246484-2	5.00000	05/26/2006 0637

Test Method.....: 8081A Equipment Code....: INST1516 Analyst...: kdl
Method Description.: Organochlorine Pesticide Analysis Batch.....: 181784

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	14.453	14.751	88.260	11.261 U	82.1	%	29-120	
							R	30	
beta-BHC, 3541 Solid	ug/Kg	14.872	15.440	88.260	11.261 U	84.4	%	51-123	
							R	30	
delta-BHC, 3541 Solid	ug/Kg	15.711	16.551	88.260	11.261 U	89.4	%	51-125	
							R	30	
gamma-BHC (Lindane), 3541 Solid	ug/Kg	14.872	15.507	88.260	11.261 U	84.4	%	37-121	
							R	30	
Heptachlor, 3541 Solid	ug/Kg	13.879	14.751	88.260	11.261 U	79.5	%	33-124	
							R	30	
Aldrin, 3541 Solid	ug/Kg	13.548	14.551	88.260	11.261 U	77.6	%	35-120	
							R	30	
Heptachlor epoxide, 3541 Solid	ug/Kg	18.888	20.616	88.260	11.261 U	107.8	%	51-116	
							R	30	
Endosulfan I, 3541 Solid	ug/Kg	12.776	13.063	88.260	11.261 U	72.3	%	27-100	
							R	30	
Dieldrin, 3541 Solid	ug/Kg	14.894	15.662	88.260	11.261 U	84.5	%	55-124	
							R	30	
4,4'-DDE, 3541 Solid	ug/Kg	17.542	18.595	88.260	11.261 U	99.6	%	59-120	
							R	30	
Endrin, 3541 Solid	ug/Kg	13.482	13.752	88.260	11.261 U	76.1	%	49-136	
							R	30	
Endosulfan II, 3541 Solid	ug/Kg	12.070	12.130	88.260	11.261 U	68.0	%	37-105	
							R	30	
4,4'-DDD, 3541 Solid	ug/Kg	14.453	15.085	88.260	11.261 U	82.4	%	59-130	
							R	30	
Endosulfan sulfate, 3541 Solid	ug/Kg	14.740	15.440	88.260	11.261 U	84.4	%	54-129	
							R	30	
4,4'-DDT, 3541 Solid	ug/Kg	15.181	16.395	88.260	11.261 U	86.7	%	58-130	
							R	30	
Methoxychlor, 3541 Solid	ug/Kg	17.851 J	18.839 J	88.260	54.980 U	101.5	%	57-132	
							R	30	
alpha-Chlordane, 3541 Solid	ug/Kg	13.063	13.307	88.260	11.261 U	74.1	%	64-123	
							R	30	
gamma-Chlordane, 3541 Solid	ug/Kg	15.159	15.840	88.260	11.261 U	86.3	%	59-121	
							R	30	
Endrin aldehyde, 3541 Solid	ug/Kg	12.644	13.752	88.260	11.261 U	72.7	%	31-110	
							R	30	
Endrin ketone, 3541 Solid	ug/Kg	13.725	13.885	88.260	11.261 U	78.0	%	52-131	
							R	30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLPCBA	181309-002		05/25/2006	1312

Test Method.....: 8082
Method Description.: PCB Analysis

Equipment Code....: INST3132
Batch.....: 181733

Analyst...: bjt

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	122.727		166.700	16.700 U	74	%	52-105	
Aroclor 1260, 3541 Solid	ug/Kg	132.060		167.000	16.700 U	79	%	63-122	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181309-001		05/25/2006	1247

Test Method.....: 8082
Method Description.: PCB Analysis

Equipment Code....: INST3132
Batch.....: 181733

Analyst...: bjt

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1221, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1232, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1242, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1248, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1254, 3541 Solid	ug/Kg	16.700	U							
Aroclor 1260, 3541 Solid	ug/Kg	16.700	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	06EWLPCBA	246484-2		05/25/2006	1426

Test Method.....: 8082
Method Description.: PCB Analysis

Equipment Code....: INST3132
Batch.....: 181733

Analyst...: bjt

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	195.835		223.100	22.338	U	88	%	52-105	
Aroclor 1260, 3541 Solid	ug/Kg	176.512		223.500	20.105	J	79	%	63-122	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	06EWLPCBA	246484-2		05/25/2006	1451

Test Method.....: 8082
Method Description.: PCB Analysis

Equipment Code....: INST3132
Batch.....: 181733

Analyst...: bjt

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	181.664	195.835	226.100	22.643	U	80	%	52-105	
							10	R	30	
Aroclor 1260, 3541 Solid	ug/Kg	169.138	176.512	226.500	20.105	J	75	%	63-122	
							5	R	30	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLBLKB	181273-002		05/24/2006	1937

Test Method.....: 8270C Equipment Code....: GCL12 Analyst...: glr
Method Description.: Semivolatile Organics Batch.....: 181716

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	991.410		1667.000	167.000 U	59	%	34-119	
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	1113.156		1667.000	167.000 U	67	%	42-101	
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	1071.833		1667.000	167.000 U	64	%	48-100	
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	1101.069		1667.000	167.000 U	66	%	50-100	
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	1095.322		1667.000	167.000 U	66	%	49-104	
Benzyl alcohol, Low Level Soil	ug/Kg	992.717		1667.000	330.000 U	60	%	14-150	
2-Methylphenol (o-cresol), Low Level S	ug/Kg	1023.916		1667.000	167.000 U	61	%	36-110	
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	1061.019		1667.000	167.000 U	64	%	48-100	
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	1045.043		1667.000	167.000 U	63	%	49-138	
Hexachloroethane, Low Level Soil	ug/Kg	1088.822		1667.000	167.000 U	65	%	46-100	
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	1075.929		1667.000	167.000 U	65	%	33-114	
2-Chlorophenol, Low Level Soil	ug/Kg	1089.999		1667.000	167.000 U	65	%	52-103	
Nitrobenzene, Low Level Soil	ug/Kg	1110.176		1667.000	33.000 U	67	%	50-100	
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	1121.809		1667.000	167.000 U	67	%	55-116	
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	1165.958		1667.000	167.000 U	70	%	53-107	
Benzoic acid, Low Level Soil	ug/Kg	1308.930	J	1667.000	1670.000 U	79	%	40-143	
Isophorone, Low Level Soil	ug/Kg	1127.869		1667.000	167.000 U	68	%	52-116	
2,4-Dimethylphenol, Low Level Soil	ug/Kg	1135.959		1667.000	330.000 U	68	%	11-115	
Hexachlorobutadiene, Low Level Soil	ug/Kg	1245.464		1667.000	167.000 U	75	%	52-118	
Naphthalene, Low Level Soil	ug/Kg	1126.802		1667.000	33.000 U	68	%	49-100	
2,4-Dichlorophenol, Low Level Soil	ug/Kg	1156.392		1667.000	330.000 U	69	%	58-103	
4-Chloroaniline, Low Level Soil	ug/Kg	798.439		1667.000	670.000 U	48	%	15-114	
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	1191.688		1667.000	330.000 U	72	%	57-105	
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	1366.313		1667.000	330.000 U	82	%	62-118	
Hexachlorocyclopentadiene, Low Level S	ug/Kg	1180.582		1667.000	670.000 U	71	%	32-100	
2-Methylnaphthalene, Low Level Soil	ug/Kg	1532.281		1667.000	167.000 U	92	%	30-115	
2-Nitroaniline, Low Level Soil	ug/Kg	1156.492		1667.000	167.000 U	69	%	55-106	
2-Chloronaphthalene, Low Level Soil	ug/Kg	1216.788		1667.000	167.000 U	73	%	59-114	
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	1125.719		1667.000	330.000 U	68	%	56-110	
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	1338.927		1667.000	167.000 U	80	%	62-111	
2-Nitrophenol, Low Level Soil	ug/Kg	1115.366		1667.000	330.000 U	67	%	53-102	
3-Nitroaniline, Low Level Soil	ug/Kg	1016.263		1667.000	330.000 U	61	%	28-100	
Dimethyl phthalate, Low Level Soil	ug/Kg	1306.704		1667.000	167.000 U	78	%	63-105	
2,4-Dinitrophenol, Low Level Soil	ug/Kg	1106.372		1667.000	670.000 U	66	%	44-139	
Acenaphthylene, Low Level Soil	ug/Kg	1237.081		1667.000	33.000 U	74	%	50-103	
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	1227.831		1667.000	167.000 U	74	%	61-113	
Acenaphthene, Low Level Soil	ug/Kg	1207.125		1667.000	33.000 U	72	%	51-100	
Dibenzofuran, Low Level Soil	ug/Kg	1224.608		1667.000	167.000 U	73	%	49-103	
4-Nitrophenol, Low Level Soil	ug/Kg	1134.535		1667.000	670.000 U	68	%	45-129	
Fluorene, Low Level Soil	ug/Kg	1225.444		1667.000	33.000 U	74	%	51-109	
4-Nitroaniline, Low Level Soil	ug/Kg	1067.853		1667.000	330.000 U	64	%	32-111	
4-Bromophenyl phenyl ether, Low Level	ug/Kg	1396.809		1667.000	167.000 U	84	%	62-108	
Hexachlorobenzene, Low Level Soil	ug/Kg	1462.462		1667.000	67.000 U	88	%	62-105	
Diethyl phthalate, Low Level Soil	ug/Kg	1331.470		1667.000	167.000 U	80	%	62-110	
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	1295.417		1667.000	167.000 U	78	%	62-106	
Pentachlorophenol, Low Level Soil	ug/Kg	1587.404		1667.000	670.000 U	95	%	43-122	
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	1302.217		1667.000	167.000 U	78	%	63-108	
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	1321.817		1667.000	330.000 U	79	%	67-130	
Phenanthrene, Low Level Soil	ug/Kg	1293.127		1667.000	33.000 U	78	%	50-110	
Anthracene, Low Level Soil	ug/Kg	1261.434		1667.000	33.000 U	76	%	51-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLBLKB	181273-002		05/24/2006	1937

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Low Level Soil	ug/Kg	1156.582		1667.000	167.000 U	69	%	49-131	
Di-n-butyl phthalate, Low Level Soil	ug/Kg	1294.457		1667.000	167.000 U	78	%	51-130	
Benzidine, Low Level Soil	ug/Kg	16.462	J	1670.000	1670.000 U	1	%	10-100	*
Fluoranthene, Low Level Soil	ug/Kg	1241.018		1667.000	33.000 U	74	%	55-122	
Pyrene, Low Level Soil	ug/Kg	1342.913		1667.000	33.000 U	81	%	41-121	
Butyl benzyl phthalate, Low Level Soil	ug/Kg	1288.197		1667.000	167.000 U	77	%	56-113	
Benzo(a)anthracene, Low Level Soil	ug/Kg	1165.548		1667.000	33.000 U	70	%	49-119	
Chrysene, Low Level Soil	ug/Kg	1419.706		1667.000	33.000 U	85	%	39-124	
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	1268.674		1667.000	670.000 U	76	%	22-106	
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	1286.884		1667.000	167.000 U	77	%	49-144	
Di-n-octyl phthalate, Low Level Soil	ug/Kg	1192.871		1667.000	167.000 U	72	%	45-130	
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	1059.973		1667.000	33.000 U	64	%	44-132	
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	1432.269		1667.000	33.000 U	86	%	43-141	
Benzo(a)pyrene, Low Level Soil	ug/Kg	1188.745		1667.000	33.000 U	71	%	45-129	
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	1151.168		1667.000	33.000 U	69	%	36-138	
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	1184.235		1667.000	33.000 U	71	%	30-144	
Benzo(ghi)perylene, Low Level Soil	ug/Kg	1178.185		1667.000	33.000 U	71	%	41-129	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181273-001		05/24/2006	1832

Test Method.....: 8270C Equipment Code....: GCL12 Analyst...: glr
Method Description.: Semivolatile Organics Batch.....: 181716

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	167.000	U							
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	167.000	U							
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
Benzyl alcohol, Low Level Soil	ug/Kg	330.000	U							
2-Methylphenol (o-cresol), Low Level S	ug/Kg	167.000	U							
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	167.000	U							
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	167.000	U							
Hexachloroethane, Low Level Soil	ug/Kg	167.000	U							
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	167.000	U							
2-Chlorophenol, Low Level Soil	ug/Kg	167.000	U							
Nitrobenzene, Low Level Soil	ug/Kg	33.000	U							
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	167.000	U							
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
Benzoic acid, Low Level Soil	ug/Kg	1670.000	U							
Isophorone, Low Level Soil	ug/Kg	167.000	U							
2,4-Dimethylphenol, Low Level Soil	ug/Kg	330.000	U							
Hexachlorobutadiene, Low Level Soil	ug/Kg	167.000	U							
Naphthalene, Low Level Soil	ug/Kg	33.000	U							
2,4-Dichlorophenol, Low Level Soil	ug/Kg	330.000	U							
4-Chloroaniline, Low Level Soil	ug/Kg	670.000	U							
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	330.000	U							
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	330.000	U							
Hexachlorocyclopentadiene, Low Level S	ug/Kg	670.000	U							
2-Methylnaphthalene, Low Level Soil	ug/Kg	167.000	U							
2-Nitroaniline, Low Level Soil	ug/Kg	167.000	U							
2-Chloronaphthalene, Low Level Soil	ug/Kg	167.000	U							
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	330.000	U							
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	167.000	U							
2-Nitrophenol, Low Level Soil	ug/Kg	330.000	U							
3-Nitroaniline, Low Level Soil	ug/Kg	330.000	U							
Dimethyl phthalate, Low Level Soil	ug/Kg	167.000	U							
2,4-Dinitrophenol, Low Level Soil	ug/Kg	670.000	U							
Acenaphthylene, Low Level Soil	ug/Kg	33.000	U							
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	167.000	U							
Acenaphthene, Low Level Soil	ug/Kg	33.000	U							
Dibenzofuran, Low Level Soil	ug/Kg	167.000	U							
4-Nitrophenol, Low Level Soil	ug/Kg	670.000	U							
Fluorene, Low Level Soil	ug/Kg	33.000	U							
4-Nitroaniline, Low Level Soil	ug/Kg	330.000	U							
4-Bromophenyl phenyl ether, Low Level	ug/Kg	167.000	U							
Hexachlorobenzene, Low Level Soil	ug/Kg	67.000	U							
Diethyl phthalate, Low Level Soil	ug/Kg	167.000	U							
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	167.000	U							
Pentachlorophenol, Low Level Soil	ug/Kg	670.000	U							
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	167.000	U							
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	330.000	U							
Phenanthrene, Low Level Soil	ug/Kg	33.000	U							
Anthracene, Low Level Soil	ug/Kg	33.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181273-001		05/24/2006	1832

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Low Level Soil	ug/Kg	167.000	U							
Di-n-butyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzidine, Low Level Soil	ug/Kg	1670.000	U							
Fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Pyrene, Low Level Soil	ug/Kg	33.000	U							
Butyl benzyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzo(a)anthracene, Low Level Soil	ug/Kg	33.000	U							
Chrysene, Low Level Soil	ug/Kg	33.000	U							
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	670.000	U							
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	167.000	U							
Di-n-octyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Benzo(a)pyrene, Low Level Soil	ug/Kg	33.000	U							
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	33.000	U							
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	33.000	U							
Benzo(ghi)perylene, Low Level Soil	ug/Kg	33.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	06EWLBLKB	246484-2		05/24/2006	2211

Test Method.....: 8270C Equipment Code....: GCL12 Analyst...: glr
Method Description.: Semivolatile Organics Batch.....: 181716

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	622.887		1511.000	151.458	U 41	%	34-119	
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	627.973		1511.000	151.458	U 42	%	42-101	
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	561.740		1511.000	151.458	U 37	%	48-100	*
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	574.268		1511.000	151.458	U 38	%	50-100	*
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	595.101		1511.000	151.458	U 39	%	49-104	*
Benzyl alcohol, Low Level Soil	ug/Kg	649.599		1511.000	299.288	U 43	%	14-150	
2-Methylphenol (o-cresol), Low Level S	ug/Kg	692.880		1511.000	151.458	U 46	%	36-110	
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	610.020		1511.000	151.458	U 40	%	48-100	*
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	644.222		1511.000	151.458	U 43	%	49-138	*
Hexachloroethane, Low Level Soil	ug/Kg	249.737		1511.000	151.458	U 17	%	46-100	*
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	712.079		1511.000	151.458	U 47	%	33-114	
2-Chlorophenol, Low Level Soil	ug/Kg	668.852		1511.000	151.458	U 44	%	52-103	*
Nitrobenzene, Low Level Soil	ug/Kg	630.222		1511.000	29.929	U 42	%	50-100	*
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	651.452		1511.000	151.458	U 43	%	55-116	*
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	664.871		1511.000	151.458	U 44	%	53-107	*
Benzoic acid, Low Level Soil	ug/Kg	631.177	J	1511.000	1514.580	U 42	%	40-143	
Isophorone, Low Level Soil	ug/Kg	648.172		1511.000	151.458	U 43	%	52-116	*
2,4-Dimethylphenol, Low Level Soil	ug/Kg	713.663		1511.000	299.288	U 47	%	11-115	
Hexachlorobutadiene, Low Level Soil	ug/Kg	680.582		1511.000	151.458	U 45	%	52-118	*
Naphthalene, Low Level Soil	ug/Kg	644.261		1511.000	9.354	J 43	%	49-100	*
2,4-Dichlorophenol, Low Level Soil	ug/Kg	740.333		1511.000	299.288	U 49	%	58-103	*
4-Chloroaniline, Low Level Soil	ug/Kg	607.646	U	1511.000	607.646	U 0	%	15-114	*
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	744.996		1511.000	299.288	U 49	%	57-105	*
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	808.132		1511.000	299.288	U 53	%	62-118	*
Hexachlorocyclopentadiene, Low Level S	ug/Kg	607.646	U	1511.000	607.646	U 0	%	32-100	*
2-Methylnaphthalene, Low Level Soil	ug/Kg	962.900		1511.000	11.076	J 64	%	30-115	
2-Nitroaniline, Low Level Soil	ug/Kg	677.841		1511.000	151.458	U 45	%	55-106	*
2-Chloronaphthalene, Low Level Soil	ug/Kg	712.590		1511.000	151.458	U 47	%	59-114	*
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	743.041		1511.000	299.288	U 49	%	56-110	*
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	850.976		1511.000	151.458	U 56	%	62-111	*
2-Nitrophenol, Low Level Soil	ug/Kg	650.473		1511.000	299.288	U 43	%	53-102	*
3-Nitroaniline, Low Level Soil	ug/Kg	214.165	J	1511.000	299.288	U 14	%	28-100	*
Dimethyl phthalate, Low Level Soil	ug/Kg	765.446		1511.000	151.458	U 51	%	63-105	*
2,4-Dinitrophenol, Low Level Soil	ug/Kg	256.280	J	1511.000	607.646	U 17	%	44-139	*
Acenaphthylene, Low Level Soil	ug/Kg	764.751		1511.000	62.969	46	%	50-103	*
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	713.439		1511.000	151.458	U 47	%	61-113	*
Acenaphthene, Low Level Soil	ug/Kg	721.887		1511.000	15.051	J 48	%	51-100	*
Dibenzofuran, Low Level Soil	ug/Kg	730.443		1511.000	10.607	J 48	%	49-103	*
4-Nitrophenol, Low Level Soil	ug/Kg	772.047		1511.000	607.646	U 51	%	45-129	
Fluorene, Low Level Soil	ug/Kg	726.835		1511.000	29.854	J 48	%	51-109	*
4-Nitroaniline, Low Level Soil	ug/Kg	307.896		1511.000	299.288	U 20	%	32-111	*
4-Bromophenyl phenyl ether, Low Level	ug/Kg	927.108		1511.000	151.458	U 61	%	62-108	*
Hexachlorobenzene, Low Level Soil	ug/Kg	913.404		1511.000	60.765	U 60	%	62-105	*
Diethyl phthalate, Low Level Soil	ug/Kg	774.571		1511.000	151.458	U 51	%	62-110	*
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	755.642		1511.000	151.458	U 50	%	62-106	*
Pentachlorophenol, Low Level Soil	ug/Kg	785.981		1511.000	607.646	U 52	%	43-122	
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	870.011		1511.000	151.458	U 58	%	63-108	*
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	519.368		1511.000	299.288	U 34	%	67-130	*
Phenanthrene, Low Level Soil	ug/Kg	966.007		1511.000	104.452	57	%	50-110	
Anthracene, Low Level Soil	ug/Kg	802.236		1511.000	78.778	48	%	51-110	*

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	06EWLBLKB	246484-2		05/24/2006	2211

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Carbazole, Low Level Soil	ug/Kg	594.860			1511.000	151.458	U	39	%	49-131	*
Di-n-butyl phthalate, Low Level Soil	ug/Kg	687.235			1511.000	151.458	U	45	%	51-130	*
Benzidine, Low Level Soil	ug/Kg	1514.580	U		1515.000	1514.580	U	0	%	10-100	*
Fluoranthene, Low Level Soil	ug/Kg	952.403			1511.000	399.766		37	%	55-122	*
Pyrene, Low Level Soil	ug/Kg	1166.392			1511.000	641.405		35	%	41-121	*
Butyl benzyl phthalate, Low Level Soil	ug/Kg	744.310			1511.000	151.458	U	49	%	56-113	*
Benzo(a)anthracene, Low Level Soil	ug/Kg	979.735			1511.000	314.354		44	%	49-119	*
Chrysene, Low Level Soil	ug/Kg	1056.638			1511.000	461.774		39	%	39-124	
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	304.629	J		1511.000	607.646	U	20	%	22-106	*
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	739.783			1511.000	151.458	U	49	%	49-144	
Di-n-octyl phthalate, Low Level Soil	ug/Kg	620.372			1511.000	151.458	U	41	%	45-130	*
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	988.986			1511.000	300.217		46	%	44-132	
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	844.707			1511.000	339.891		33	%	43-141	*
Benzo(a)pyrene, Low Level Soil	ug/Kg	962.972			1511.000	418.487		36	%	45-129	*
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	832.968			1511.000	206.918		41	%	36-138	
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	788.783			1511.000	130.348		44	%	30-144	
Benzo(ghi)perylene, Low Level Soil	ug/Kg	890.207			1511.000	278.173		40	%	41-129	*
Caprolactam, Low Level Soil	ug/Kg	299.288	U			299.288	U	0	%	40-165	*

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	06EWLBLKB	246484-2		05/24/2006 2233

Test Method.....: 8270C Equipment Code....: GCL12 Analyst...: glr
Method Description.: Semivolatile Organics Batch.....: 181716

Parameter/Test Description	Units	QC Result		QC Result		True Value	Orig. Value		QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	835.349		622.887		1518.000	152.068	U	55	%	34-119	
									29	R	20	*
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	719.219		627.973		1518.000	152.068	U	47	%	42-101	
									11	R	20	
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	672.759		561.740		1518.000	152.068	U	44	%	48-100	*
									17	R	20	
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	698.575		574.268		1518.000	152.068	U	46	%	50-100	*
									19	R	20	
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	727.154		595.101		1518.000	152.068	U	48	%	49-104	*
									21	R	20	*
Benzyl alcohol, Low Level Soil	ug/Kg	849.028		649.599		1518.000	300.493	U	56	%	14-150	
									26	R	20	*
2-Methylphenol (o-cresol), Low Level S	ug/Kg	903.754		692.880		1518.000	152.068	U	60	%	36-110	
									26	R	20	*
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	755.302		610.020		1518.000	152.068	U	50	%	48-100	
									22	R	20	*
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	817.936		644.222		1518.000	152.068	U	54	%	49-138	
									23	R	20	*
Hexachloroethane, Low Level Soil	ug/Kg	224.398		249.737		1518.000	152.068	U	15	%	46-100	*
									12	R	20	
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	941.932		712.079		1518.000	152.068	U	62	%	33-114	
									28	R	20	*
2-Chlorophenol, Low Level Soil	ug/Kg	847.993		668.852		1518.000	152.068	U	56	%	52-103	
									24	R	20	*
Nitrobenzene, Low Level Soil	ug/Kg	826.554		630.222		1518.000	30.049	U	54	%	50-100	
									25	R	20	*
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	825.959		651.452		1518.000	152.068	U	54	%	55-116	*
									23	R	20	*
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	829.326		664.871		1518.000	152.068	U	55	%	53-107	
									22	R	20	*
Benzoic acid, Low Level Soil	ug/Kg	906.446	J	631.177	J	1518.000	1520.675	U	60	%	40-143	
									35	R	20	*
Isophorone, Low Level Soil	ug/Kg	834.435		648.172		1518.000	152.068	U	55	%	52-116	
									24	R	20	*
2,4-Dimethylphenol, Low Level Soil	ug/Kg	932.697		713.663		1518.000	300.493	U	61	%	11-115	
									26	R	20	*
Hexachlorobutadiene, Low Level Soil	ug/Kg	830.309		680.582		1518.000	152.068	U	55	%	52-118	
									20	R	20	
Naphthalene, Low Level Soil	ug/Kg	816.925		644.261		1518.000	9.354	J	54	%	49-100	
									23	R	20	*
2,4-Dichlorophenol, Low Level Soil	ug/Kg	974.939		740.333		1518.000	300.493	U	64	%	58-103	
									27	R	20	*
4-Chloroaniline, Low Level Soil	ug/Kg	610.091	U	610.091	U	1518.000	610.091	U	0	%	15-114	*
									0	R	20	
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	971.105		744.996		1518.000	300.493	U	64	%	57-105	
									27	R	20	*
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	1092.129		808.132		1518.000	300.493	U	72	%	62-118	
									30	R	20	*
Hexachlorocyclopentadiene, Low Level S	ug/Kg	610.091	U	610.091	U	1518.000	610.091	U	0	%	32-100	*
									0	R	20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 — Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	06EWLBLKB	246484-2		05/24/2006 2233

Parameter/Test Description	Units	QC Result		QC Result		True Value	Orig. Value		QC Calc.	*	Limits	F
2-Methylnaphthalene, Low Level Soil	ug/Kg	1259.127		962.900		1518.000	11.076	J	83	%	30-115	
									26	R	20	*
2-Nitroaniline, Low Level Soil	ug/Kg	900.199		677.841		1518.000	152.068	U	59	%	55-106	
									27	R	20	*
2-Chloronaphthalene, Low Level Soil	ug/Kg	916.301		712.590		1518.000	152.068	U	60	%	59-114	
									24	R	20	*
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	994.059		743.041		1518.000	300.493	U	65	%	56-110	
									28	R	20	*
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	943.565		850.976		1518.000	152.068	U	62	%	62-111	
									10	R	20	
2-Nitrophenol, Low Level Soil	ug/Kg	833.300		650.473		1518.000	300.493	U	55	%	53-102	
									24	R	20	*
3-Nitroaniline, Low Level Soil	ug/Kg	293.461	J	214.165	J	1518.000	300.493	U	19	%	28-100	*
									30	R	20	*
Dimethyl phthalate, Low Level Soil	ug/Kg	999.511		765.446		1518.000	152.068	U	66	%	63-105	
									26	R	20	*
2,4-Dinitrophenol, Low Level Soil	ug/Kg	396.951	J	256.280	J	1518.000	610.091	U	26	%	44-139	*
									42	R	20	*
Acenaphthylene, Low Level Soil	ug/Kg	1020.871		764.751		1518.000	62.969		63	%	50-103	
									31	R	20	*
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	833.506		713.439		1518.000	152.068	U	55	%	61-113	*
									16	R	20	
Acenaphthene, Low Level Soil	ug/Kg	943.987		721.887		1518.000	15.051	J	62	%	51-100	
									25	R	20	*
Dibenzofuran, Low Level Soil	ug/Kg	967.887		730.443		1518.000	10.607	J	64	%	49-103	
									29	R	20	*
4-Nitrophenol, Low Level Soil	ug/Kg	1293.707		772.047		1518.000	610.091	U	85	%	45-129	
									50	R	20	*
Fluorene, Low Level Soil	ug/Kg	992.589		726.835		1518.000	29.854	J	65	%	51-109	
									30	R	20	*
4-Nitroaniline, Low Level Soil	ug/Kg	433.535		307.896		1518.000	300.493	U	29	%	32-111	*
									37	R	20	*
4-Bromophenyl phenyl ether, Low Level	ug/Kg	1176.791		927.108		1518.000	152.068	U	78	%	62-108	
									24	R	20	*
Hexachlorobenzene, Low Level Soil	ug/Kg	1231.644		913.404		1518.000	61.009	U	81	%	62-105	
									30	R	20	*
Diethyl phthalate, Low Level Soil	ug/Kg	882.151		774.571		1518.000	152.068	U	58	%	62-110	*
									13	R	20	
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	1022.331		755.642		1518.000	152.068	U	67	%	62-106	
									29	R	20	*
Pentachlorophenol, Low Level Soil	ug/Kg	1265.244		785.981		1518.000	610.091	U	83	%	43-122	
									46	R	20	*
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	1053.727		870.011		1518.000	152.068	U	69	%	63-108	
									17	R	20	
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	632.614		519.368		1518.000	300.493	U	42	%	67-130	*
									21	R	20	*
Phenanthrene, Low Level Soil	ug/Kg	1202.279		966.007		1518.000	104.452		72	%	50-110	
									23	R	20	*
Anthracene, Low Level Soil	ug/Kg	1097.712		802.236		1518.000	78.778		67	%	51-110	
									33	R	20	*
Carbazole, Low Level Soil	ug/Kg	910.496		594.860		1518.000	152.068	U	60	%	49-131	
									42	R	20	*
Di-n-butyl phthalate, Low Level Soil	ug/Kg	1017.106		687.235		1518.000	152.068	U	67	%	51-130	
									39	R	20	*

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time
MSD	Matrix Spike Duplicate	06EWLBLKB	246484-2		05/24/2006 2233

Parameter/Test Description	Units	QC Result		QC Result		True Value	Orig. Value		QC Calc.	*	Limits	F
Benzidine, Low Level Soil	ug/Kg	1520.675	U	1520.675	U	1521.000	1520.675	U	0	%	10-100	*
									0	R	20	
Fluoranthene, Low Level Soil	ug/Kg	5.393	J	952.403		1518.000	399.766		-26	%	55-122	*
									0	R	20	
Pyrene, Low Level Soil	ug/Kg	1486.302		1166.392		1518.000	641.405		56	%	41-121	
									46	R	20	*
Butyl benzyl phthalate, Low Level Soil	ug/Kg	942.769		744.310		1518.000	152.068	U	62	%	56-113	
									23	R	20	*
Benzo(a)anthracene, Low Level Soil	ug/Kg	1325.109		979.735		1518.000	314.354		67	%	49-119	
									41	R	20	*
Chrysene, Low Level Soil	ug/Kg	1491.615		1056.638		1518.000	461.774		68	%	39-124	
									54	R	20	*
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	294.656	J	304.629	J	1518.000	610.091	U	19	%	22-106	*
									5	R	20	
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	966.837		739.783		1518.000	152.068	U	64	%	49-144	
									27	R	20	*
Di-n-octyl phthalate, Low Level Soil	ug/Kg	839.905		620.372		1518.000	152.068	U	55	%	45-130	
									29	R	20	*
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	1201.584		988.986		1518.000	300.217		59	%	44-132	
									25	R	20	*
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	1324.975		844.707		1518.000	339.891		65	%	43-141	
									65	R	20	*
Benzo(a)pyrene, Low Level Soil	ug/Kg	1281.849		962.972		1518.000	418.487		57	%	45-129	
									45	R	20	*
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	982.556		832.968		1518.000	206.918		51	%	36-138	
									22	R	20	*
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	921.601		788.783		1518.000	130.348		52	%	30-144	
									17	R	20	
Benzo(ghi)perylene, Low Level Soil	ug/Kg	1020.030		890.207		1518.000	278.173		49	%	41-129	
									20	R	20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	M06ESPK001	180647-002		05/16/2006	1951

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP5
Batch.....: 180896

Analyst...: tds

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	188.23		200.00	5.05 U	94	%	80-120	
Antimony, Solid	mg/Kg	45.29		50.00	0.43 U	91	%	80-120	
Arsenic, Solid	mg/Kg	9.25		10.00	0.37 U	93	%	80-120	
Barium, Solid	mg/Kg	186.44		200.00	0.07 U	93	%	80-120	
Beryllium, Solid	mg/Kg	4.73		5.00	0.02 U	95	%	80-120	
Cadmium, Solid	mg/Kg	4.66		5.00	0.06 U	93	%	80-120	
Calcium, Solid	mg/Kg	962.80		1000.00	1.93 B	96	%	80-120	
Chromium, Solid	mg/Kg	19.48		20.00	0.10 U	97	%	80-120	
Cobalt, Solid	mg/Kg	47.67		50.00	0.12 U	95	%	80-120	
Copper, Solid	mg/Kg	24.85		25.00	0.22 U	99	%	80-120	
Iron, Solid	mg/Kg	97.64		100.00	2.20 U	98	%	80-120	
Lead, Solid	mg/Kg	9.71		10.00	0.25 U	97	%	80-120	
Magnesium, Solid	mg/Kg	933.44		1000.00	1.69 B	93	%	80-120	
Manganese, Solid	mg/Kg	49.88		50.00	0.09 B	100	%	80-120	
Molybdenum, Solid	mg/Kg	95.99		100.00	0.46 U	96	%	80-120	
Nickel, Solid	mg/Kg	47.53		50.00	0.48 U	95	%	80-120	
Potassium, Solid	mg/Kg	795.87		1000.00	19.35 B	80	%	80-120	
Selenium, Solid	mg/Kg	8.87		10.00	0.45 U	89	%	80-120	
Silver, Solid	mg/Kg	4.67		5.00	0.10 U	93	%	80-120	
Sodium, Solid	mg/Kg	920.75		1000.00	78.60 U	92	%	80-120	
Thallium, Solid	mg/Kg	8.99		10.00	0.57 U	90	%	80-120	
Vanadium, Solid	mg/Kg	48.49		50.00	0.15 U	97	%	80-120	
Zinc, Solid	mg/Kg	47.17		50.00	1.37 U	94	%	80-120	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	180647	180647-001		05/16/2006	1946

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP5
Batch.....: 180896

Analyst...: tds

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	5.05	U							
Antimony, Solid	mg/Kg	0.43	U							
Arsenic, Solid	mg/Kg	0.37	U							
Barium, Solid	mg/Kg	0.07	U							
Beryllium, Solid	mg/Kg	0.02	U							
Cadmium, Solid	mg/Kg	0.06	U							
Calcium, Solid	mg/Kg	1.93	B							
Chromium, Solid	mg/Kg	0.10	U							
Cobalt, Solid	mg/Kg	0.12	U							
Copper, Solid	mg/Kg	0.22	U							
Iron, Solid	mg/Kg	2.20	U							
Lead, Solid	mg/Kg	0.25	U							
Magnesium, Solid	mg/Kg	1.69	B							
Manganese, Solid	mg/Kg	0.09	B							
Molybdenum, Solid	mg/Kg	0.46	U							
Nickel, Solid	mg/Kg	0.48	U							
Potassium, Solid	mg/Kg	19.35	B							
Selenium, Solid	mg/Kg	0.45	U							
Silver, Solid	mg/Kg	0.10	U							
Sodium, Solid	mg/Kg	78.60	U							
Thallium, Solid	mg/Kg	0.57	U							
Vanadium, Solid	mg/Kg	0.15	U							
Zinc, Solid	mg/Kg	1.37	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MD	Method Duplicate		246484-2		05/16/2006	2058

Test Method.....: 6010B Equipment Code....: ICP5 Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) Batch.....: 180896

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	16839.87				17054.16		1.3	R	20.0	
Antimony, Solid	mg/Kg	0.81	B			0.77	U	0.10	A	3.59	
Arsenic, Solid	mg/Kg	7.70				7.35		0.35	A	1.79	
Barium, Solid	mg/Kg	135.32				134.67		0.5	R	20.0	
Beryllium, Solid	mg/Kg	0.96				0.97		0.00	A	0.72	
Cadmium, Solid	mg/Kg	2.45				2.35		4.4	R	20.0	
Calcium, Solid	mg/Kg	16905.29				16758.13		0.9	R	20.0	
Chromium, Solid	mg/Kg	42.80				42.86		0.1	R	20.0	
Cobalt, Solid	mg/Kg	11.17				11.10		0.6	R	20.0	
Copper, Solid	mg/Kg	40.93				40.60		0.8	R	20.0	
Iron, Solid	mg/Kg	28016.96				28005.46		0.0	R	20.0	
Lead, Solid	mg/Kg	44.56				44.07		1.1	R	20.0	
Magnesium, Solid	mg/Kg	8603.30				8585.09		0.2	R	20.0	
Manganese, Solid	mg/Kg	489.44				478.80		2.2	R	20.0	
Molybdenum, Solid	mg/Kg	2.13				1.73	B	0.41	A	1.79	
Nickel, Solid	mg/Kg	35.76				35.60		0.5	R	20.0	
Potassium, Solid	mg/Kg	2128.56				2155.92		1.3	R	20.0	
Selenium, Solid	mg/Kg	0.81	U			1.88		1.17	A	1.79	
Silver, Solid	mg/Kg	0.73	B			0.69	B	0.04	A	0.90	
Sodium, Solid	mg/Kg	151.32	B			150.85	B	0.46	A	179.47	
Thallium, Solid	mg/Kg	1.02	U			1.02	U	0	A	1.79	
Vanadium, Solid	mg/Kg	32.53				32.68		0.5	R	20.0	
Zinc, Solid	mg/Kg	217.25				212.90		2.0	R	20.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	M06ESPK001	246484-2		05/16/2006	2103

Test Method.....: 6010B Equipment Code....: ICP5 Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) Batch.....: 180896

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	23774.30		315.70	17054.16		2129	%	75-125	4
Antimony, Solid	mg/Kg	31.02		78.92	0.71	B	39	%	75-125	N
Arsenic, Solid	mg/Kg	22.51		15.78	7.35		96	%	75-125	
Barium, Solid	mg/Kg	416.36		315.70	134.67		89	%	75-125	
Beryllium, Solid	mg/Kg	7.95		7.89	0.97		89	%	75-125	
Cadmium, Solid	mg/Kg	8.99		7.89	2.35		84	%	75-125	
Calcium, Solid	mg/Kg	17782.79		1578.00	16758.13		65	%	75-125	4
Chromium, Solid	mg/Kg	76.64		31.57	42.86		107	%	75-125	
Cobalt, Solid	mg/Kg	77.73		78.92	11.10		84	%	75-125	
Copper, Solid	mg/Kg	77.57		39.46	40.60		94	%	75-125	
Iron, Solid	mg/Kg	29563.56		157.80	28005.46		987	%	75-125	4
Lead, Solid	mg/Kg	56.74		15.78	44.07		80	%	75-125	
Magnesium, Solid	mg/Kg	10506.91		1578.00	8585.09		122	%	75-125	4
Manganese, Solid	mg/Kg	545.92		78.92	478.80		85	%	75-125	4
Molybdenum, Solid	mg/Kg	134.00		157.80	1.73		84	%	75-125	
Nickel, Solid	mg/Kg	102.98		78.92	35.60		85	%	75-125	
Potassium, Solid	mg/Kg	4827.51		1578.00	2155.92		169	%	75-125	N
Selenium, Solid	mg/Kg	14.39		15.78	1.88		79	%	75-125	
Silver, Solid	mg/Kg	7.60		7.89	0.69	B	96	%	75-125	
Sodium, Solid	mg/Kg	1777.25		1578.00	150.85	B	113	%	75-125	
Thallium, Solid	mg/Kg	13.60		15.78	0.90	U	86	%	75-125	
Vanadium, Solid	mg/Kg	113.59		78.92	32.68		103	%	75-125	
Zinc, Solid	mg/Kg	276.21		78.92	212.90		80	%	75-125	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 — Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	M06ESPK001	246484-2		05/16/2006	2107

Test Method.....: 6010B — Equipment Code....: ICP5 — Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) — Batch.....: 180896

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	24986.86	23774.30	352.50	17054.16		2251	%	75-125	4
							5.6	R	20	
Antimony, Solid	mg/Kg	34.38	31.02	88.11	0.76	U	39	%	75-125	N
							0.0	R	20	
Arsenic, Solid	mg/Kg	23.60	22.51	17.62	7.35		92	%	75-125	
							4.3	R	20	
Barium, Solid	mg/Kg	452.39	416.36	352.50	134.67		90	%	75-125	
							1.1	R	20	
Beryllium, Solid	mg/Kg	8.63	7.95	8.81	0.97		87	%	75-125	
							2.3	R	20	
Cadmium, Solid	mg/Kg	9.52	8.99	8.81	2.35		81	%	75-125	
							3.6	R	20	
Calcium, Solid	mg/Kg	17884.50	17782.79	1762.00	16758.13		64	%	75-125	4
							1.6	R	20	
Chromium, Solid	mg/Kg	80.13	76.64	35.25	42.86		106	%	75-125	
							0.9	R	20	
Cobalt, Solid	mg/Kg	84.50	77.73	88.11	11.10		83	%	75-125	
							1.2	R	20	
Copper, Solid	mg/Kg	81.87	77.57	44.06	40.60		94	%	75-125	
							0.0	R	20	
Iron, Solid	mg/Kg	29979.28	29563.56	176.20	28005.46		1120	%	75-125	4
							12.6	R	20	
Lead, Solid	mg/Kg	58.07	56.74	17.62	44.07		79	%	75-125	
							1.3	R	20	
Magnesium, Solid	mg/Kg	10731.31	10506.91	1762.00	8585.09		122	%	75-125	4
							0.0	R	20	
Manganese, Solid	mg/Kg	561.93	545.92	88.11	478.80		94	%	75-125	4
							10.1	R	20	
Molybdenum, Solid	mg/Kg	147.10	134.00	176.20	1.73	B	83	%	75-125	
							1.2	R	20	
Nickel, Solid	mg/Kg	109.58	102.98	88.11	35.60		84	%	75-125	
							1.2	R	20	
Potassium, Solid	mg/Kg	5295.67	4827.51	1762.00	2155.92		178	%	75-125	N
							5.2	R	20	
Selenium, Solid	mg/Kg	15.88	14.39	17.62	1.88		79	%	75-125	
							0.0	R	20	
Silver, Solid	mg/Kg	8.28	7.60	8.81	0.69	B	94	%	75-125	
							2.1	R	20	
Sodium, Solid	mg/Kg	1963.15	1777.25	1762.00	150.85	B	111	%	75-125	
							1.8	R	20	
Thallium, Solid	mg/Kg	15.62	13.60	17.62	1.00	U	89	%	75-125	
							3.4	R	20	
Vanadium, Solid	mg/Kg	122.00	113.59	88.11	32.68		101	%	75-125	
							2.0	R	20	
Zinc, Solid	mg/Kg	278.87	276.21	88.11	212.90		75	%	75-125	
							6.5	R	20	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
SD	Serial Dilution		246484-2		05/16/2006	2029

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP5
Batch.....: 180896

Analyst...: tds

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value		QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	3613.45				17054.16		5.9	D	10.0	
Antimony, Solid	mg/Kg	0.70	U			0.71	B				
Arsenic, Solid	mg/Kg	1.54	B			7.35					
Barium, Solid	mg/Kg	29.08				134.67		8.0	D	10.0	
Beryllium, Solid	mg/Kg	0.20	B			0.97					
Cadmium, Solid	mg/Kg	0.54				2.35					
Calcium, Solid	mg/Kg	3633.63				16758.13		8.4	D	10.0	
Chromium, Solid	mg/Kg	9.20				42.86		7.3	D	10.0	
Cobalt, Solid	mg/Kg	2.45				11.10		10.4	D	10.0	E
Copper, Solid	mg/Kg	8.51				40.60		4.8	D	10.0	
Iron, Solid	mg/Kg	6085.69				28005.46		8.7	D	10.0	
Lead, Solid	mg/Kg	9.79				44.07		11.0	D	10.0	E
Magnesium, Solid	mg/Kg	1852.77				8585.09		7.9	D	10.0	
Manganese, Solid	mg/Kg	105.44				478.80		10.1	D	10.0	E
Molybdenum, Solid	mg/Kg	0.75	U			1.73					
Nickel, Solid	mg/Kg	8.04				35.60					
Potassium, Solid	mg/Kg	425.41				2155.92		1.3	D	10.0	
Selenium, Solid	mg/Kg	0.73	U			1.88					
Silver, Solid	mg/Kg	0.25	B			0.69	B				
Sodium, Solid	mg/Kg	127.67	U			150.85	B				
Thallium, Solid	mg/Kg	0.93	U			0.93	U				
Vanadium, Solid	mg/Kg	7.05				32.68		7.9	D	10.0	
Zinc, Solid	mg/Kg	47.77				212.90		12.2	D	10.0	E

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 — Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN: James Slowikowski

Test Method.....: Method — Batch.....: 181045 — Analyst...: pfk
Method Description.: % Solids Determination — Equipment Code....: — Test Code.: %SOLID
Parameter.....: % Solids

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181045-001		%	0.1000 U								05/18/2006	1115
MD	246484-2		%	55.00000			54.80000	0.4		R	5.0	05/18/2006	1126

Test Method.....: 4500NH3B+C — Batch.....: 181667 — Analyst...: mtb
Method Description.: Nitrogen, Ammonia (Dist./Nessler.) — Equipment Code....: SPEC4 — Test Code.: NH3
Parameter.....: Ammonia(NH3+NH4),as N

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181667-004		mg/L	0.13000 U								05/25/2006	1601
LCS	181667-005	I06ESTTK2	mg/L	2.23400		2.50000	0.13000 U	89		%	80-120	05/25/2006	1601
MSD	246484-2	I06ESTTK2	mg/Kg	1573.00	2221.72	6083.00	155.98	116		%	75-125	05/25/2006	1603
								2.6		R	20		
MS	246484-2	I06ESTTK2	mg/Kg	2221.72		9124.00	155.98	113		%	75-125	05/25/2006	1603

Test Method.....: HACH 8000 — Batch.....: 181745 — Analyst...: kd
Method Description.: Chemical Oxygen Demand (HACH) — Equipment Code....: — Test Code.: CODH
Parameter.....: Chemical Oxygen Demand (COD-High)

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181745-001		mg/L	36.00000 U								05/26/2006	1200
LCS	181745-002	I06ESTCD2	mg/L	462.88000		500.00000		93		%	80-120	05/26/2006	1203
MD	246484-2		mg/Kg	72169.24			77257.09	6.8		R	20.0	05/26/2006	1211

Test Method.....: 9014/9010B — Batch.....: 180914 — Analyst...: mtb
Method Description.: Cyanide (Colorimetric) — Equipment Code....: SPEC4 — Test Code.: CN
Parameter.....: Cyanide, Total

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	180914-004		mg/L	0.00180 U								05/15/2006	1241
LCS	180914-005	I06BSTCN2	mg/L	0.09770		0.10000	0.00180 U	98		%	85-115	05/15/2006	1241
MS	246484-2	I06BSTCN2	mg/Kg	3.36		3.09	0.25 B	109		%	75-125	05/15/2006	1246
MSD	246484-2	I06BSTCN2	mg/Kg	2.79	3.36	2.63	0.25 B	106		%	75-125	05/15/2006	1246
								2.8		R	20		

Test Method.....: Lloyd Kahn — Batch.....: 180912 — Analyst...: cls
Method Description.: Total Organic Carbon (Soils) — Equipment Code....: TOC4 — Test Code.: TOC
Parameter.....: Organic Carbon, Tot. (TOC)

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	180912-003		mg/Kg	29.00 U								05/17/2006	0827

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Test Method.....: Lloyd Kahn
Method Description.: Total Organic Carbon (Soils)
Parameter.....: TOC Average Duplicates
Batch.....: 180912
Equipment Code....: TOC4
Analyst...: cls
Test Code.: TOCAV2

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
LCS	180912-004	I00FSTLK3	mg/Kg	3863.53		4780.00		81		%	53-140	05/17/2006	0845
MS	246484-2	I06DSTTC2	mg/Kg	25915.31		2000.00	14286.05	106		%	53-140	05/17/2006	0957
MSD	246484-2	I06DSTTC2	mg/Kg	27406.70	25915.31	2000.00	14286.05	111		%	53-140	05/17/2006	1011
								12		R	30		

Test Method.....: D5057
Method Description.: Density/Specific Gravity
Parameter.....: Density
Batch.....: 181472
Equipment Code....:
Analyst...: cls
Test Code.: DENSIT

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MD	246484-2		g/cc	1.406			1.436	2.1				05/18/2006	1041

Test Method.....: 9045C
Method Description.: pH (Soil)
Parameter.....: pH
Batch.....: 180829
Equipment Code....:
Analyst...: pmf
Test Code.: PH

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
PHC	180829-001	I06CPH10B	pH Units	9.99000		10.06000		0.07000		A	0.20000	05/16/2006	1230
LCSP	180829-002	I06CPH7B	pH Units	6.97000		7.01000		0.04000		A	0.20000	05/16/2006	1233
LCDP	180829-003	I06CPH7B	pH Units	6.96000		7.01000		0.05000		A	0.20000	05/16/2006	1236
MDPH	246484-2		pH Units	7.24000			7.26000	0.02000		A	0.20000	05/16/2006	1249
PHC	180829-014	I06CPH10B	pH Units	10.15000		10.06000		0.09000		A	0.20000	05/16/2006	1310
PHC	180829-024	I06CPH12B	pH Units	12.44000		12.54000		0.10000		A	0.20000	05/16/2006	1341
PHC	180829-001	I06CPH10B	pH Units	10.09000		10.06000		0.03000		A	0.20000	05/16/2006	1344
PHC	180829-014	I06CPH4B	pH Units	4.08000		4.01000		0.07000		A	0.20000	05/16/2006	1400

Test Method.....: 4500PE
Method Description.: Phosphorous, All Forms
Parameter.....: Phosphorous, Total as P
Batch.....: 181344
Equipment Code....: SPEC4
Analyst...: pmf
Test Code.: PTOT

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
LCS	181344-005	I05JSTPS2	mg/L	0.48700		0.50000	0.01120 U	97		%	80-120	05/23/2006	0826
MB	181344-004		mg/L	0.01120 U								05/23/2006	0826

Test Method.....: 351.3
Method Description.: Nitrogen, Total Kjeldahl
Parameter.....: Nitrogen, Total Kjeldahl as N (TKN)
Batch.....: 181188
Equipment Code....: SPEC4
Analyst...: mtb
Test Code.: TKN

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181188-004		mg/L	0.10000 U								05/19/2006	1356
LCS	181188-005	I06ASTTK2A	mg/L	2.57300		2.50000	0.10000 U	103		%	80-120	05/19/2006	1357
MS	246484-2	I06ASTTK2A	mg/Kg	3107.99		2074.00	1936.99	282	4	%	75-125	05/19/2006	1358
MSD	246484-2	I06ASTTK2A	mg/Kg	1986.77	3107.99	1141.00	1936.99	22	4	%	75-125	05/19/2006	1358
								171.1	*	R	20		

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246484

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Test Method.....: 7471A
Method Description.: Mercury (CVAA) Solids
Parameter.....: Mercury

Batch.....: 181050
Equipment Code....: HG3

Analyst...: gok
Test Code.: HG

QC	Lab ID	Reagent	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181048-007		mg/Kg	0.01	U								05/12/2006	1559
LCS	181048-008	M04LSTK010	mg/Kg	0.18			0.17	0.01	U 105		%	80-120	05/12/2006	1601
MD	246484-2		mg/Kg	0.32				0.32	0.8		R	20.0	05/12/2006	1620
MS	246484-2	M05LSTK001	mg/Kg	0.54			0.15	0.32	144	N	%	75-125	05/12/2006	1622
MSD	246484-2	M05LSTK001	mg/Kg	0.50		0.54	0.15	0.32	121		%	75-125	05/12/2006	1624
									17.4		R	20		

Test Method.....: 7471A
Method Description.: Mercury (CVAA) Solids
Parameter.....: Mercury

Batch.....: 181094
Equipment Code....: HG3

Analyst...: gok
Test Code.: HG

QC	Lab ID	Reagent	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181093-007		mg/Kg	0.01	U								05/17/2006	1504
LCS	181093-008	M04LSTK010	mg/Kg	0.16			0.17	0.01	U 99		%	80-120	05/17/2006	1507

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/30/2006

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U	Analyte was not detected at or above the stated limit.
<	Not detected at or above the reporting limit.
J	Result is less than the RL, but greater than or equal to the method detection limit.
B	Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S	Result was determined by the Method of Standard Additions.
F	AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^	ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
*	LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+	MSA correlation coefficient is less than 0.995.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	SD: Serial dilution exceeds the control limits.
H	MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N	MS, MSD: Spike recovery exceeds the upper or lower control limits.
W	AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U	Analyte was not detected at or above the stated limit.
ND	Compound not detected.
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q	Result was qualitatively confirmed, but not quantified.
C	Pesticide identification was confirmed by GC/MS.
Y	The chromatographic response resembles a typical fuel pattern.
Z	The chromatographic response does not resemble a typical fuel pattern.
E	Result exceeded calibration range, secondary dilution required.
F	AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B	MB: Batch QC is greater than reporting limit.
*	LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^	EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A	Concentration exceeds the instrument calibration range
a	Concentration is below the method Reporting Limit (RL)
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H	Alternate peak selection upon analytical review
I	Indicates the presence of an interfence, recovery is not calculated.
M	Manually integrated compound.
P	The lower of the two values is reported when the % difference between the results of two GC columns is

greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RT	Retention Time

RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)
Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

SEVERN TRENT **STL**

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University Park, IL 60466
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Report To:
Contact: James A Slowikowski
Company: Illinois State Water Survey
Address: 2204 Griffith Dr
Champaign IL 61820
Phone: 217 244 3820
Fax: 217 333 2304
E-Mail: slow@uiuc.edu

Bill To:
Contact:
Company:
Address: ← SAME
Phone:
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only ____ of ____

Lab Lot# 246484

Package Sealed (Yes) No	Samples Sealed Yes (No)
Received on Ice (Yes) No	Samples Intact (Yes) No
Temperature °C of Cooler: 4 4	
Within Hold Time (Yes) No	Preserv. Indicated (Yes) No NA
Soil Clr Check OK Yes No (NA)	Res Cl, Check OK Yes No (NA)
Sample Labels and COC Agree (Yes) No	COC not present

Sampler Name: JA Slowikowski
Signature: James A Slowikowski
Project Name: LACON AREA
Project Number: 20006441
Project Location: Lacon IL Riv
Date Required Hard Copy: ASAP
Fax: ___/___/___
Lab PM:

Refrig #
Cont.
Volume
Preserv.

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Metals	SVOC	PCB	Pest (oc)	Hg, CN	TKN, PH	Ammonia	Total P	COD, Toc	Density/SG	Additional Analyses / Remarks JARS
1		265	5.8.06	10:30	SE												2
2	X	266	"	11:10	"												3
3		267	"	12:00	"												2
4		268	"	12:40	"												2
5		269	"	13:10	"												2
6		270	"	13:55	"												2
7		271	"	14:25	"												2
8		272	"	14:55	"												2
9		273	"	15:50	"												2
10		274	"	16:25	"												2

RELINQUISHED BY	JAS	COMPANY	ISWS	DATE 5/11/06	TIME 1700	RECEIVED BY	COMPANY SR	DATE 5/12/06	TIME 1030
RELINQUISHED BY		COMPANY		DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 5 / 12 / 06
Courier: UPS **Hand Delivered** ☐
Bill of Lading

SEVERN TRENT STL®

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SEVERN TRENT LABORATORIES ANALYTICAL REPORT

JOB NUMBER: 246498

Prepared For:

Illinois State Water Survey
2204 Griffith Drive
Champaign, IL 61820

Project: Lacon Area

Attention: James Slowikowski

Date: 05/30/2006

Signature

Name: Richard C. Wright

Title: Project Manager

E-Mail: rwright@stl-inc.com

5/30/06
Date

STL Chicago
2417 Bond Street
University Park, IL 60466

PHONE: (708) 534-5200
FAX..: (708) 534-5211

This Report Contains (66) Pages

STL Chicago
Wet Chemistry Case Narrative

Client: **Illinois State Water Survey**
Job #: **246498** Date Rec'd: 05/13/06

1. This narrative covers the analysis of samples in the above Job # for ammonia-nitrogen, COD, cyanide, TOC, density, pH, phosphorus, and TKN by the methods given on the Laboratory Test Results pages.

2. The EPA holding times were met.

3. The initial and continuing calibration verification standards and blanks were in control.

4. The method blanks were below the reporting limits.

5. The LCS recoveries were within control limits. Please see the Quality Control Results pages for additional details.

6. The matrix QC that was done on these samples was within acceptance limits, except for the cyanide MSD, which was biased high, at 127% recovery. The MS was in control.

Diane L. Harper
Wet Chemistry Section Manager

5/26/06
Date

Severn Trent Laboratories Chicago
METALS CASE NARRATIVE

Client: Illinois State Water Survey
Job ID: Lacon Area
STL Job#: 246498

Rec'd: 05/13/06

1. This narrative covers Metals analysis of samples in the above STL Job 246498.

   Method Refs: USEPA, SW-846

2. All analyses were performed within the required holding times.

3. All Initial and Continuing Calibration Verification (ICV/CCV's) were within control limits.

4. All Initial and Continuing Calibration Blanks (ICB/CCB's) were within control limits.

5. All Preparation/Method Blanks were below the Reporting Limits.

6. Laboratory Control Sample (LCS) recoveries were within control limits.

7. Matrix QC was performed on an alternate Job.

Jodi L. Gromala
Metals Section Manager

5-23-06
Date

Severn Trent Services - Chicago
GC/MS BNA Case Narrative

Illinois State Water Survey
Job Number: 246498
BNA DATA:

1. All extractions and analyses were performed within recommended hold times.

2. The Method Blank had all analytes below the contract required quantitation limits (CRQL).

3. A BNA LCS (Laboratory Control Sample) spike solution was spiked in the LCS sample. In-house statistical recovery limits and the 11 method control compounds were used for QC evaluation. All controlled spike recoveries were within the QC limits in the LCS sample.

4. Matrix Spike/Matrix Spike Duplicate analyses were not performed on this analytical batch.

5. All samples had surrogate recoveries within in-house generated QC limits.

6. The full scan analyses were performed following USEPA SW846 8270C protocol. All samples had internal standard areas and retention times within the SOP acceptance limits as compared to the corresponding calibration verification.

7. The samples were extracted and analyzed as low-level soils; therefore, normal detection limits apply. The results are on a dry weight basis.

Gary Rynkar
GC/MS BNA Supervisor

5/25/6
Date

STL Chicago
Pesticide Case Narrative

Illinois State Water Survey
Lacon Area
Job #: 246498-1 through 6
Pesticides

1. STL Chicago used the following Gas Chromatographic systems for the analysis of these pesticides:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
16	Agilent 6890II+	Rtx-Clp2 (Primary)	Electron Capture
15	Agilent 6890II+	Rtx-Clp1 (Confirmation)	Electron Capture

2. These soil samples were extracted based on SW846 method 3541. The extracts were analyzed for pesticides based on SW846 method 8081A. The extracts received a GPC cleanup in order to reduce matrix interference.

3. All required holding times were met for the extraction and for the analysis.

4. The method blank was below the reporting limit for all target compounds.

5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.

6. All blank spike recoveries were within statistical control limits. A solution containing all single component pesticides, except Atrazine was used for spiking.

7. A matrix spike and a matrix spike duplicate were not performed on a sample in this SDG.

8. All initial and continuing (grand mean <15% difference) standard calibrations associated with these samples were within control on both columns.

9. All results were reported from the primary column.

10. Target compounds were qualitatively confirmed using a second column.

11. Samples 246498-1, and -6 were analyzed at dilutions due to dark color of extract. Reporting limits have been adjusted to reflect the necessary dilution.

Karen D. Lesiak
GC Analyst

5/26/06
Date

STL Chicago
PCB Case Narrative

Illinois State Water Survey
LACON
Job #: 246498-1 through 6
PCBs

1. STL Chicago used the following Gas Chromatographic systems for the analysis of PCBs:

ID#	INSTRUMENT	COLUMN TYPE	DETECTOR
31	HP 6890	Rtx-5 (Primary)	Electron Capture
32	HP 6890	Rtx-Clp2	Electron Capture

2. This sediment samples were extracted based on SW846 method 3541. The extracts were analyzed for PCBs based on SW846 method 8082. All extracts received a GPC clean up and a sulfuric acid cleanup in order to reduce matrix interference.

3. All required holding times were met for the extraction and for the analysis.

4. The method blank was below the reporting limits for all Aroclors.

5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits with the exception of sample 246498-6(280) with recovery of 66%.

6. A solution containing Aroclor 1016 and Aroclor 1260 was used for spiking.

7. All blank spike and blank spike duplicate recoveries and RPDs were within statistical control limits.

8. A matrix spike and a matrix spike duplicate were not performed on these samples.

9. All initial and continuing (grand mean <15% difference) standard calibrations associated with this sample were in control on the primary column. All SSV recoveries were within limits of 85%-115%.

10. Target compounds were not detected in the primary analysis. Therefore, a second column confirmation was not required.

Brenda J. Thompson
Organics Unit Leader

5/26/06
Date

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SAMPLE INFORMATION
Date: 05/30/2006

Job Number.: 246498
Customer...: Illinois State Water Survey
Attn.....: James Slowikowski

Project Number.....: 20006441
Customer Project ID....: LACON AREA
Project Description....: Lacon Area

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
246498-1	275	Sediment	05/09/2006	07:05	05/13/2006	11:00
246498-2	276	Sediment	05/09/2006	07:50	05/13/2006	11:00
246498-3	277	Sediment	05/09/2006	08:40	05/13/2006	11:00
246498-4	278	Sediment	05/09/2006	09:15	05/13/2006	11:00
246498-5	279	Sediment	05/09/2006	09:45	05/13/2006	11:00
246498-6	280	Sediment	05/09/2006	10:20	05/13/2006	11:00

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	10	U		5.8	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	beta-BHC, 3541 Solid*	10	U		8.3	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	delta-BHC, 3541 Solid*	10	U		8.3	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	gamma-BHC (Lindane), 3541 Solid*	10	U		5.8	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Heptachlor, 3541 Solid*	10	U		5.4	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Aldrin, 3541 Solid*	10	U		5.3	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Heptachlor epoxide, 3541 Solid*	10	U		5.6	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endosulfan I, 3541 Solid*	10	U		5.9	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Dieldrin, 3541 Solid*	10	U		5.3	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	4,4'-DDE, 3541 Solid*	10	U		5.6	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endrin, 3541 Solid*	10	U		5.6	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endosulfan II, 3541 Solid*	10	U		5.9	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	4,4'-DDD, 3541 Solid*	10	U		6.5	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endosulfan sulfate, 3541 Solid*	10	U		6.5	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	4,4'-DDT, 3541 Solid*	10	U		5.5	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Methoxychlor, 3541 Solid*	49	U		8.3	49	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	alpha-Chlordane, 3541 Solid*	10	U		5.3	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	gamma-Chlordane, 3541 Solid*	10	U		0.89	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Toxaphene, 3541 Solid*	99	U		65	99	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endrin aldehyde, 3541 Solid*	10	U		7.1	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Endrin ketone, 3541 Solid*	10	U		7.7	10	5.00000	ug/Kg	181796		05/26/06 1659	kdl
	Atrazine, 3541 Solid*	990	U		400	990	5.00000	ug/Kg	181796		05/26/06 1659	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	20	U		6.6	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
	Aroclor 1221, 3541 Solid*	20	U		5.5	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
	Aroclor 1232, 3541 Solid*	20	U		5.3	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
	Aroclor 1242, 3541 Solid*	20	U		5.8	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	37			4.3	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
	Aroclor 1254, 3541 Solid*	40			4.4	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
	Aroclor 1260, 3541 Solid*	15	J		3.9	20	1.00000	ug/Kg	181733		05/25/06 2013	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	130	U		37	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	130	U		35	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,3-Dichlorobenzene, Low Level Soil*	130	U		33	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,4-Dichlorobenzene, Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,2-Dichlorobenzene, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzyl alcohol, Low Level Soil*	260	U		120	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Methylphenol (o-cresol), Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	130	U		34	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Hexachloroethane, Low Level Soil*	130	U		41	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	130	U		71	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Chlorophenol, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Nitrobenzene, Low Level Soil*	26	U		10	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	130	U		30	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	130	U		40	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzoic acid, Low Level Soil*	1300	U		270	1300	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Isophorone, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4-Dimethylphenol, Low Level Soil*	260	U		45	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Hexachlorobutadiene, Low Level Soil*	130	U		37	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Naphthalene, Low Level Soil*	26	U		6.2	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4-Dichlorophenol, Low Level Soil*	260	U		44	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Chloroaniline, Low Level Soil*	530	U		120	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4,6-Trichlorophenol, Low Level Soil*	260	U		35	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4,5-Trichlorophenol, Low Level Soil*	260	U		59	260	1.00000	ug/Kg	181661		05/25/06 0150	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	530	U		210	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Methylnaphthalene, Low Level Soil*	130	U		33	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Nitroaniline, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Chloronaphthalene, Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Chloro-3-methylphenol, Low Level Soil*	260	U		60	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,6-Dinitrotoluene, Low Level Soil*	130	U		31	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2-Nitrophenol, Low Level Soil*	260	U		73	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	3-Nitroaniline, Low Level Soil*	260	U		48	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Dimethyl phthalate, Low Level Soil*	130	U		13	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4-Dinitrophenol, Low Level Soil*	530	U		210	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Acenaphthylene, Low Level Soil*	50			6.9	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	2,4-Dinitrotoluene, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Acenaphthene, Low Level Soil*	12	J		5.2	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Dibenzofuran, Low Level Soil*	130	U		17	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Nitrophenol, Low Level Soil*	530	U		210	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Fluorene, Low Level Soil*	17	J	H	6.1	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Nitroaniline, Low Level Soil*	260	U		55	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	130	U		22	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Hexachlorobenzene, Low Level Soil*	53	U		20	53	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Diethyl phthalate, Low Level Soil*	130	U		14	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	130	U		19	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Pentachlorophenol, Low Level Soil*	530	U		160	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	n-Nitrosodiphenylamine, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	260	U		42	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Phenanthrene, Low Level Soil*	49			4.2	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Anthracene, Low Level Soil*	50			2.9	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Carbazole, Low Level Soil*	130	U		19	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Di-n-butyl phthalate, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzidine, Low Level Soil*	1300	U		1300	1300	1.00000	ug/Kg	181661		05/25/06 0150	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	230		H	4.8	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Pyrene, Low Level Soil*	320			6.0	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Butyl benzyl phthalate, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzo(a)anthracene, Low Level Soil*	170		M	5.8	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Chrysene, Low Level Soil*	240		M	6.9	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	3,3-Dichlorobenzidine, Low Level Soil*	530	U		110	530	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	88	J		63	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Di-n-octyl phthalate, Low Level Soil*	130	U		24	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzo(b)fluoranthene, Low Level Soil*	170		M	5.2	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzo(k)fluoranthene, Low Level Soil*	180		M	8.1	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzo(a)pyrene, Low Level Soil*	220		M	4.4	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	110			8.7	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	53			5.7	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzo(ghi)perylene, Low Level Soil*	150			5.9	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Caprolactam, Low Level Soil*	260	U		130	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Benzaldehyde, Low Level Soil*	260	U		120	260	1.00000	ug/Kg	181661		05/25/06 0150	glr
	Acetophenone, Low Level Soil*	130	U		37	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,1'-Biphenyl, Low Level Soil*	26	U		8.7	26	1.00000	ug/Kg	181661		05/25/06 0150	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	130	U		31	130	1.00000	ug/Kg	181661		05/25/06 0150	glr
Method	% Solids Determination											
	% Solids, Solid	62.5			0.10	0.10	1	%	180772		05/16/06 0941	pfk
	% Moisture, Solid	37.5			0.10	0.10	1	%	180772		05/16/06 0941	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	250			19	29	1	mg/Kg	181667		05/25/06 1607	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	63000			66	3700	1	mg/Kg	181745		05/26/06 1236	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.62	U		0.1	0.6	1	mg/Kg	181072		05/18/06 1146	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	20000			410	1800	1	mg/Kg	180912		05/17/06 1430	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.575					1	* g/cc	181472		05/18/06 1347	cls
9045C	pH (Soil)											
	pH, Solid	7.1			0.2	0.2	1	pH Units	181059		05/17/06 1347	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	480			36	130	10	mg/Kg	181344		05/23/06 0830	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1800			59	240	5	mg/Kg	181188		05/19/06 1402	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.15			0.0098	0.053	1	mg/Kg	181292		05/19/06 1523	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	14000			6.8	27	1	mg/Kg	181010		05/18/06 0322	tds
	Antimony, Solid*	1.1	B		0.58	2.7	1	mg/Kg	181010		05/18/06 0322	tds
	Arsenic, Solid*	5.4			0.50	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Barium, Solid*	130			0.097	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Beryllium, Solid*	0.85			0.024	0.54	1	mg/Kg	181010		05/18/06 0322	tds
	Cadmium, Solid*	1.9			0.078	0.27	1	mg/Kg	181010		05/18/06 0322	tds
	Calcium, Solid*	16000			2.5	13	1	mg/Kg	181010		05/18/06 0322	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 275
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:05
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-1
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	33			0.13	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Cobalt, Solid*	10			0.16	0.67	1	mg/Kg	181010		05/18/06 0322	tds
	Copper, Solid*	34			0.30	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Iron, Solid*	23000			3.0	13	1	mg/Kg	181010		05/18/06 0322	tds
	Lead, Solid*	32			0.34	0.67	1	mg/Kg	181010		05/18/06 0322	tds
	Magnesium, Solid*	9000			1.4	13	1	mg/Kg	181010		05/18/06 0322	tds
	Manganese, Solid*	440			0.071	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Molybdenum, Solid*	2.1			0.62	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Nickel, Solid*	30			0.65	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Potassium, Solid*	1400			8.1	67	1	mg/Kg	181010		05/18/06 0322	tds
	Selenium, Solid*	0.85	B		0.60	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Silver, Solid*	0.38	B		0.13	0.67	1	mg/Kg	181010		05/18/06 0322	tds
	Sodium, Solid*	130	B		110	130	1	mg/Kg	181010		05/18/06 0322	tds
	Thallium, Solid*	1.3	U		0.77	1.3	1	mg/Kg	181010		05/18/06 0322	tds
	Vanadium, Solid*	27			0.20	0.67	1	mg/Kg	181010		05/18/06 0322	tds
	Zinc, Solid*	150			1.8	2.7	1	mg/Kg	181010		05/18/06 0322	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.9	U		1.1	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	beta-BHC, 3541 Solid*	1.9	U		1.5	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	delta-BHC, 3541 Solid*	1.9	U		1.5	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	gamma-BHC (Lindane), 3541 Solid*	1.9	U		1.1	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Heptachlor, 3541 Solid*	1.9	U		1.0	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Aldrin, 3541 Solid*	1.9	U		0.97	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Heptachlor epoxide, 3541 Solid*	1.9	U		1.0	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endosulfan I, 3541 Solid*	1.9	U		1.1	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Dieldrin, 3541 Solid*	1.9	U		0.97	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	4,4'-DDE, 3541 Solid*	1.9	U		1.0	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endrin, 3541 Solid*	1.9	U		1.0	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endosulfan II, 3541 Solid*	1.9	U		1.1	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	4,4'-DDD, 3541 Solid*	1.9	U		1.2	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endosulfan sulfate, 3541 Solid*	1.9	U		1.2	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	4,4'-DDT, 3541 Solid*	1.9	U		1.0	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Methoxychlor, 3541 Solid*	9.1	U		1.5	9.1	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	alpha-Chlordane, 3541 Solid*	1.9	U		0.97	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	gamma-Chlordane, 3541 Solid*	1.9	U		0.16	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Toxaphene, 3541 Solid*	18	U		12	18	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endrin aldehyde, 3541 Solid*	1.9	U		1.3	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Endrin ketone, 3541 Solid*	1.9	U		1.4	1.9	1.00000	ug/Kg	181796		05/26/06 1749	kdl
	Atrazine, 3541 Solid*	270			73	180	1.00000	ug/Kg	181796		05/26/06 1749	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	18	U		6.1	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
	Aroclor 1221, 3541 Solid*	18	U		5.0	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
	Aroclor 1232, 3541 Solid*	18	U		4.9	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
	Aroclor 1242, 3541 Solid*	18	U		5.4	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	18	U		3.9	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
	Aroclor 1254, 3541 Solid*	18	U		4.1	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
	Aroclor 1260, 3541 Solid*	18	U		3.6	18	1.00000	ug/Kg	181733		05/25/06 2038	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	130	U		33	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,3-Dichlorobenzene, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,4-Dichlorobenzene, Low Level Soil*	130	U		28	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,2-Dichlorobenzene, Low Level Soil*	130	U		37	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzyl alcohol, Low Level Soil*	250	U		110	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Methylphenol (o-cresol), Low Level Soil*	130	U		27	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	130	U		33	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	130	U		28	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Hexachloroethane, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	130	U		68	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Chlorophenol, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Nitrobenzene, Low Level Soil*	25	U		9.8	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	130	U		39	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzoic acid, Low Level Soil*	1300	U		260	1300	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Isophorone, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4-Dimethylphenol, Low Level Soil*	250	U		43	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Hexachlorobutadiene, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Naphthalene, Low Level Soil*	25	U		5.9	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4-Dichlorophenol, Low Level Soil*	250	U		42	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Chloroaniline, Low Level Soil*	510	U		120	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4,6-Trichlorophenol, Low Level Soil*	250	U		33	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4,5-Trichlorophenol, Low Level Soil*	250	U		56	250	1.00000	ug/Kg	181661		05/25/06 0211	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Methylnaphthalene, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Nitroaniline, Low Level Soil*	130	U		20	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Chloronaphthalene, Low Level Soil*	130	U		28	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Chloro-3-methylphenol, Low Level Soil*	250	U		57	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,6-Dinitrotoluene, Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2-Nitrophenol, Low Level Soil*	250	U		70	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	3-Nitroaniline, Low Level Soil*	250	U		46	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Dimethyl phthalate, Low Level Soil*	130	U		12	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4-Dinitrophenol, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Acenaphthylene, Low Level Soil*	25	U		6.6	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	2,4-Dinitrotoluene, Low Level Soil*	130	U		21	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Acenaphthene, Low Level Soil*	25	U		5.0	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Dibenzofuran, Low Level Soil*	130	U		17	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Nitrophenol, Low Level Soil*	510	U		200	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Fluorene, Low Level Soil*	25	U		5.8	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Nitroaniline, Low Level Soil*	250	U		52	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	130	U		21	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Hexachlorobenzene, Low Level Soil*	51	U		19	51	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Diethyl phthalate, Low Level Soil*	130	U		14	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	130	U		18	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Pentachlorophenol, Low Level Soil*	510	U		150	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	n-Nitrosodiphenylamine, Low Level Soil*	130	U		15	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	250	U		40	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Phenanthrene, Low Level Soil*	11	J	H	4.0	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Anthracene, Low Level Soil*	10	J	H	2.7	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Carbazole, Low Level Soil*	130	U		18	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Di-n-butyl phthalate, Low Level Soil*	130	U		20	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzidine, Low Level Soil*	1300	U		1300	1300	1.00000	ug/Kg	181661		05/25/06 0211	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	38		H	4.6	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Pyrene, Low Level Soil*	44		H	5.7	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Butyl benzyl phthalate, Low Level Soil*	130	U		15	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzo(a)anthracene, Low Level Soil*	28			5.5	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Chrysene, Low Level Soil*	34		H	6.6	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	3,3-Dichlorobenzidine, Low Level Soil*	510	U		110	510	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	130	U		60	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Di-n-octyl phthalate, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzo(b)fluoranthene, Low Level Soil*	26		M	4.9	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzo(k)fluoranthene, Low Level Soil*	32		M	7.7	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzo(a)pyrene, Low Level Soil*	35		M	4.2	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	19	J	H	8.3	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	10	J		5.4	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzo(ghi)perylene, Low Level Soil*	29		H	5.6	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Caprolactam, Low Level Soil*	250	U		120	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Benzaldehyde, Low Level Soil*	250	U		110	250	1.00000	ug/Kg	181661		05/25/06 0211	glr
	Acetophenone, Low Level Soil*	130	U		36	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,1'-Biphenyl, Low Level Soil*	25	U		8.3	25	1.00000	ug/Kg	181661		05/25/06 0211	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0211	glr
Method	% Solids Determination											
	% Solids, Solid	66.0			0.10	0.10	1	%	180772		05/16/06 0943	pfk
	% Moisture, Solid	34.0			0.10	0.10	1	%	180772		05/16/06 0943	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	170			15	23	1	mg/Kg	181667		05/25/06 1607	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	35000			51	2900	1	mg/Kg	181745		05/26/06 1239	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.53	U		0.1	0.5	1	mg/Kg	181072		05/18/06 1147	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	11000			500	2200	1	mg/Kg	180912		05/17/06 1446	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.714					1	* g/cc	181472		05/18/06 1408	cls
9045C	pH (Soil)											
	pH, Solid	7.9			0.2	0.2	1	pH Units	181059		05/17/06 1352	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	460			37	140	10	mg/Kg	181344		05/23/06 0831	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1100			50	200	5	mg/Kg	181188		05/19/06 1403	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.058			0.0092	0.050	1	mg/Kg	181292		05/19/06 1525	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			7.4	29	1	mg/Kg	181010		05/18/06 0326	tds
	Antimony, Solid*	2.9	U		0.63	2.9	1	mg/Kg	181010		05/18/06 0326	tds
	Arsenic, Solid*	2.4			0.54	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Barium, Solid*	120			0.11	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Beryllium, Solid*	0.71			0.026	0.59	1	mg/Kg	181010		05/18/06 0326	tds
	Cadmium, Solid*	0.70			0.085	0.29	1	mg/Kg	181010		05/18/06 0326	tds
	Calcium, Solid*	28000			2.7	15	1	mg/Kg	181010		05/18/06 0326	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 276
Date Sampled.....: 05/09/2006
Time Sampled.....: 07:50
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-2
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	21			0.15	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Cobalt, Solid*	9.5			0.18	0.73	1	mg/Kg	181010		05/18/06 0326	tds
	Copper, Solid*	22			0.32	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Iron, Solid*	21000			3.2	15	1	mg/Kg	181010		05/18/06 0326	tds
	Lead, Solid*	18			0.37	0.73	1	mg/Kg	181010		05/18/06 0326	tds
	Magnesium, Solid*	14000			1.5	15	1	mg/Kg	181010		05/18/06 0326	tds
	Manganese, Solid*	350			0.078	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Molybdenum, Solid*	1.4	B		0.67	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Nickel, Solid*	23			0.70	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Potassium, Solid*	1300			8.8	73	1	mg/Kg	181010		05/18/06 0326	tds
	Selenium, Solid*	1.5	U		0.66	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Silver, Solid*	0.73	U		0.15	0.73	1	mg/Kg	181010		05/18/06 0326	tds
	Sodium, Solid*	150	U		120	150	1	mg/Kg	181010		05/18/06 0326	tds
	Thallium, Solid*	1.5	U		0.84	1.5	1	mg/Kg	181010		05/18/06 0326	tds
	Vanadium, Solid*	23			0.22	0.73	1	mg/Kg	181010		05/18/06 0326	tds
	Zinc, Solid*	80			2.0	2.9	1	mg/Kg	181010		05/18/06 0326	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.99	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	beta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	delta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		1.0	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Heptachlor, 3541 Solid*	1.7	U		0.93	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Aldrin, 3541 Solid*	1.7	U		0.90	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Heptachlor epoxide, 3541 Solid*	1.7	U		0.96	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endosulfan I, 3541 Solid*	1.7	U		1.0	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Dieldrin, 3541 Solid*	1.7	U		0.90	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	4,4'-DDE, 3541 Solid*	1.7	U		0.96	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endrin, 3541 Solid*	1.7	U		0.97	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endosulfan II, 3541 Solid*	1.7	U		1.0	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	4,4'-DDD, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endosulfan sulfate, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	4,4'-DDT, 3541 Solid*	1.7	U		0.95	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Methoxychlor, 3541 Solid*	8.4	U		1.4	8.4	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	alpha-Chlordane, 3541 Solid*	1.7	U		0.90	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Toxaphene, 3541 Solid*	17	U		11	17	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endrin aldehyde, 3541 Solid*	1.7	U		1.2	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Endrin ketone, 3541 Solid*	1.7	U		1.3	1.7	1.00000	ug/Kg	181796		05/26/06 1814	kdl
	Atrazine, 3541 Solid*	300			68	170	1.00000	ug/Kg	181796		05/26/06 1814	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	17	U		5.7	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
	Aroclor 1221, 3541 Solid*	17	U		4.7	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
	Aroclor 1232, 3541 Solid*	17	U		4.6	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
	Aroclor 1242, 3541 Solid*	17	U		5.0	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	17	U		3.7	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
	Aroclor 1254, 3541 Solid*	11	J		3.8	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
	Aroclor 1260, 3541 Solid*	17	U		3.4	17	1.00000	ug/Kg	181733		05/25/06 2103	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	120	U		33	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	120	U		31	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,3-Dichlorobenzene, Low Level Soil*	120	U		29	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,4-Dichlorobenzene, Low Level Soil*	120	U		26	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,2-Dichlorobenzene, Low Level Soil*	120	U		34	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzyl alcohol, Low Level Soil*	230	U		100	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Methylphenol (o-cresol), Low Level Soil*	120	U		25	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	120	U		30	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	120	U		26	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Hexachloroethane, Low Level Soil*	120	U		36	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	120	U		63	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Chlorophenol, Low Level Soil*	120	U		28	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Nitrobenzene, Low Level Soil*	23	U		9.1	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	120	U		26	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	120	U		36	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzoic acid, Low Level Soil*	1200	U		240	1200	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Isophorone, Low Level Soil*	120	U		20	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4-Dimethylphenol, Low Level Soil*	230	U		40	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Hexachlorobutadiene, Low Level Soil*	120	U		33	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Naphthalene, Low Level Soil*	23	U		5.4	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4-Dichlorophenol, Low Level Soil*	230	U		38	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Chloroaniline, Low Level Soil*	470	U		110	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4,6-Trichlorophenol, Low Level Soil*	230	U		31	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4,5-Trichlorophenol, Low Level Soil*	230	U		52	230	1.00000	ug/Kg	181661		05/25/06 0233	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	470	U		180	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Methylnaphthalene, Low Level Soil*	120	U		29	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Nitroaniline, Low Level Soil*	120	U		19	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Chloronaphthalene, Low Level Soil*	120	U		26	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Chloro-3-methylphenol, Low Level Soil*	230	U		52	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,6-Dinitrotoluene, Low Level Soil*	120	U		27	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2-Nitrophenol, Low Level Soil*	230	U		64	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	3-Nitroaniline, Low Level Soil*	230	U		42	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Dimethyl phthalate, Low Level Soil*	120	U		11	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4-Dinitrophenol, Low Level Soil*	470	U		190	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Acenaphthylene, Low Level Soil*	9.2	J		6.1	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	2,4-Dinitrotoluene, Low Level Soil*	120	U		20	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Acenaphthene, Low Level Soil*	23	U		4.6	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Dibenzofuran, Low Level Soil*	120	U		15	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Nitrophenol, Low Level Soil*	470	U		180	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Fluorene, Low Level Soil*	23	U		5.4	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Nitroaniline, Low Level Soil*	230	U		48	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	120	U		20	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Hexachlorobenzene, Low Level Soil*	47	U		17	47	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Diethyl phthalate, Low Level Soil*	120	U		13	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	120	U		17	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Pentachlorophenol, Low Level Soil*	470	U		140	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	n-Nitrosodiphenylamine, Low Level Soil*	120	U		14	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	230	U		37	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Phenanthrene, Low Level Soil*	11	J		3.7	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Anthracene, Low Level Soil*	7.5	J		2.5	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Carbazole, Low Level Soil*	120	U		17	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Di-n-butyl phthalate, Low Level Soil*	120	U		19	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzidine, Low Level Soil*	1200	U		1200	1200	1.00000	ug/Kg	181661		05/25/06 0233	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	35		H	4.2	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Pyrene, Low Level Soil*	42		H	5.2	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Butyl benzyl phthalate, Low Level Soil*	120	U		14	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzo(a)anthracene, Low Level Soil*	18	J	M	5.1	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Chrysene, Low Level Soil*	37		M	6.1	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	3,3-Dichlorobenzidine, Low Level Soil*	470	U		97	470	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	120	U		56	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Di-n-octyl phthalate, Low Level Soil*	120	U		21	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzo(b)fluoranthene, Low Level Soil*	23		M	4.5	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzo(k)fluoranthene, Low Level Soil*	40		M	7.1	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzo(a)pyrene, Low Level Soil*	32		M	3.9	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	23		H	7.7	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	12	J		5.0	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzo(ghi)perylene, Low Level Soil*	30			5.2	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Caprolactam, Low Level Soil*	230	U		110	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Benzaldehyde, Low Level Soil*	230	U		110	230	1.00000	ug/Kg	181661		05/25/06 0233	glr
	Acetophenone, Low Level Soil*	120	U		33	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,1'-Biphenyl, Low Level Soil*	23	U		7.7	23	1.00000	ug/Kg	181661		05/25/06 0233	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	120	U		27	120	1.00000	ug/Kg	181661		05/25/06 0233	glr
Method	% Solids Determination											
	% Solids, Solid	71.5			0.10	0.10	1	%	180772		05/16/06 0946	pfk
	% Moisture, Solid	28.5			0.10	0.10	1	%	180772		05/16/06 0946	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	87			17	25	1	mg/Kg	181667		05/25/06 1607	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	17000			36	2000	1	mg/Kg	181745		05/26/06 1242	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.42	U		0.07	0.42	1	mg/Kg	181072		05/18/06 1147	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	7100			450	1900	1	mg/Kg	180912		05/17/06 1502	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.790					1	* g/cc	181472		05/18/06 1428	cls
9045C	pH (Soil)											
	pH, Solid	8.0			0.2	0.2	1	pH Units	181059		05/17/06 1358	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	390			35	130	10	mg/Kg	181344		05/23/06 0831	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	770			19	77	2	mg/Kg	181188		05/19/06 1403	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.054			0.0085	0.046	1	mg/Kg	181292		05/19/06 1527	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	11000			6.2	25	1	mg/Kg	181010		05/18/06 0331	tds
	Antimony, Solid*	2.5	U		0.53	2.5	1	mg/Kg	181010		05/18/06 0331	tds
	Arsenic, Solid*	6.6			0.46	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Barium, Solid*	82			0.089	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Beryllium, Solid*	0.63			0.022	0.49	1	mg/Kg	181010		05/18/06 0331	tds
	Cadmium, Solid*	0.56			0.071	0.25	1	mg/Kg	181010		05/18/06 0331	tds
	Calcium, Solid*	31000			2.3	12	1	mg/Kg	181010		05/18/06 0331	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 277
Date Sampled.....: 05/09/2006
Time Sampled.....: 08:40
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-3
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	19			0.12	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Cobalt, Solid*	9.6			0.15	0.62	1	mg/Kg	181010		05/18/06 0331	tds
	Copper, Solid*	19			0.27	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Iron, Solid*	21000			2.7	12	1	mg/Kg	181010		05/18/06 0331	tds
	Lead, Solid*	15			0.31	0.62	1	mg/Kg	181010		05/18/06 0331	tds
	Magnesium, Solid*	14000			1.2	12	1	mg/Kg	181010		05/18/06 0331	tds
	Manganese, Solid*	680			0.065	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Molybdenum, Solid*	1.3			0.57	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Nickel, Solid*	22			0.59	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Potassium, Solid*	1200			7.4	62	1	mg/Kg	181010		05/18/06 0331	tds
	Selenium, Solid*	0.70	B		0.55	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Silver, Solid*	0.62	U		0.12	0.62	1	mg/Kg	181010		05/18/06 0331	tds
	Sodium, Solid*	120			97	120	1	mg/Kg	181010		05/18/06 0331	tds
	Thallium, Solid*	1.2	U		0.70	1.2	1	mg/Kg	181010		05/18/06 0331	tds
	Vanadium, Solid*	24			0.18	0.62	1	mg/Kg	181010		05/18/06 0331	tds
	Zinc, Solid*	63			1.7	2.5	1	mg/Kg	181010		05/18/06 0331	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.96	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	beta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	delta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		0.97	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Heptachlor, 3541 Solid*	1.7	U		0.90	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Aldrin, 3541 Solid*	1.7	U		0.88	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Heptachlor epoxide, 3541 Solid*	1.7	U		0.93	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endosulfan I, 3541 Solid*	1.7	U		0.99	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Dieldrin, 3541 Solid*	1.7	U		0.88	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	4,4'-DDE, 3541 Solid*	1.8			0.93	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endrin, 3541 Solid*	1.7	U		0.94	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endosulfan II, 3541 Solid*	1.7	U		0.99	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	4,4'-DDD, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endosulfan sulfate, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	4,4'-DDT, 3541 Solid*	1.7	U		0.92	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Methoxychlor, 3541 Solid*	8.2	U		1.4	8.2	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	alpha-Chlordane, 3541 Solid*	1.7	U		0.88	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Toxaphene, 3541 Solid*	17	U		11	17	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endrin aldehyde, 3541 Solid*	1.7	U		1.2	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Endrin ketone, 3541 Solid*	1.7	U		1.3	1.7	1.00000	ug/Kg	181796		05/26/06 1839	kdl
	Atrazine, 3541 Solid*	240			66	170	1.00000	ug/Kg	181796		05/26/06 1839	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	17	U		5.6	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
	Aroclor 1221, 3541 Solid*	17	U		4.6	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
	Aroclor 1232, 3541 Solid*	17	U		4.5	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
	Aroclor 1242, 3541 Solid*	17	U		4.9	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	18			3.6	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
	Aroclor 1254, 3541 Solid*	24			3.7	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
	Aroclor 1260, 3541 Solid*	9.9	J		3.3	17	1.00000	ug/Kg	181733		05/25/06 2152	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	110	U		31	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	110	U		29	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,3-Dichlorobenzene, Low Level Soil*	110	U		28	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,4-Dichlorobenzene, Low Level Soil*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,2-Dichlorobenzene, Low Level Soil*	110	U		32	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzyl alcohol, Low Level Soil*	220	U		98	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Methylphenol (o-cresol), Low Level Soil*	110	U		24	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	110	U		29	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Hexachloroethane, Low Level Soil*	110	U		34	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	110	U		60	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Chlorophenol, Low Level Soil*	110	U		27	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Nitrobenzene, Low Level Soil*	22	U		8.6	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	110	U		34	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzoic acid, Low Level Soil*	1100	U		230	1100	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Isophorone, Low Level Soil*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4-Dimethylphenol, Low Level Soil*	220	U		38	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Hexachlorobutadiene, Low Level Soil*	110	U		31	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Naphthalene, Low Level Soil*	22	U		5.2	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4-Dichlorophenol, Low Level Soil*	220	U		36	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Chloroaniline, Low Level Soil*	440	U		100	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4,6-Trichlorophenol, Low Level Soil*	220	U		29	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4,5-Trichlorophenol, Low Level Soil*	220	U		49	220	1.00000	ug/Kg	181661		05/25/06 0255	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	440	U		170	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Methylnaphthalene, Low Level Soil*	110	U		28	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Nitroaniline, Low Level Soil*	110	U		18	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Chloronaphthalene, Low Level Soil*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Chloro-3-methylphenol, Low Level Soil*	220	U		50	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,6-Dinitrotoluene, Low Level Soil*	110	U		26	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2-Nitrophenol, Low Level Soil*	220	U		61	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	3-Nitroaniline, Low Level Soil*	220	U		40	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Dimethyl phthalate, Low Level Soil*	110	U		11	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4-Dinitrophenol, Low Level Soil*	440	U		180	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Acenaphthylene, Low Level Soil*	11	J		5.8	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	2,4-Dinitrotoluene, Low Level Soil*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Acenaphthene, Low Level Soil*	22	U		4.4	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Dibenzofuran, Low Level Soil*	110	U		15	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Nitrophenol, Low Level Soil*	440	U		170	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Fluorene, Low Level Soil*	22	U		5.1	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Nitroaniline, Low Level Soil*	220	U		46	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Hexachlorobenzene, Low Level Soil*	44	U		17	44	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Diethyl phthalate, Low Level Soil*	110	U		12	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	110	U		16	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Pentachlorophenol, Low Level Soil*	440	U		140	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	n-Nitrosodiphenylamine, Low Level Soil*	110	U		13	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	220	U		35	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Phenanthrene, Low Level Soil*	14	J	H	3.5	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Anthracene, Low Level Soil*	12	J	H	2.4	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Carbazole, Low Level Soil*	110	U		16	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Di-n-butyl phthalate, Low Level Soil*	110	U		18	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzidine, Low Level Soil*	1100	U		1100	1100	1.00000	ug/Kg	181661		05/25/06 0255	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	57		H	4.0	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Pyrene, Low Level Soil*	78		H	5.0	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Butyl benzyl phthalate, Low Level Soil*	110	U		13	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzo(a)anthracene, Low Level Soil*	41			4.8	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Chrysene, Low Level Soil*	52		H	5.8	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	3,3-Dichlorobenzidine, Low Level Soil*	440	U		92	440	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	110	U		53	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Di-n-octyl phthalate, Low Level Soil*	110	U		20	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzo(b)fluoranthene, Low Level Soil*	35		M	4.3	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzo(k)fluoranthene, Low Level Soil*	50		M	6.8	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzo(a)pyrene, Low Level Soil*	48		M	3.7	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	25		H	7.3	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	13	J	M	4.8	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzo(ghi)perylene, Low Level Soil*	34		H	4.9	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Caprolactam, Low Level Soil*	220	U		100	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Benzaldehyde, Low Level Soil*	220	U		100	220	1.00000	ug/Kg	181661		05/25/06 0255	glr
	Acetophenone, Low Level Soil*	110	U		31	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,1'-Biphenyl, Low Level Soil*	22	U		7.3	22	1.00000	ug/Kg	181661		05/25/06 0255	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	110	U		26	110	1.00000	ug/Kg	181661		05/25/06 0255	glr
Method	% Solids Determination											
	% Solids, Solid	74.8			0.10	0.10	1	%	180772		05/16/06 0947	pfk
	% Moisture, Solid	25.2			0.10	0.10	1	%	180772		05/16/06 0947	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	96			14	22	1	mg/Kg	181667		05/25/06 1608	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	23000			44	2400	1	mg/Kg	181745		05/26/06 1244	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.31	U		0.06	0.31	1	mg/Kg	181072		05/18/06 1147	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	6800			340	1500	1	mg/Kg	180912		05/17/06 1515	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.855					1	* g/cc	181472		05/18/06 1449	cls
9045C	pH (Soil)											
	pH, Solid	8.0			0.2	0.2	1	pH Units	181059		05/17/06 1403	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	360			23	84	10	mg/Kg	181344		05/23/06 0831	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	680			22	89	2	mg/Kg	181188		05/19/06 1403	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.055			0.0082	0.044	1	mg/Kg	181292		05/19/06 1529	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8200			5.7	22	1	mg/Kg	181010		05/18/06 0335	tds
	Antimony, Solid*	2.2	U		0.48	2.2	1	mg/Kg	181010		05/18/06 0335	tds
	Arsenic, Solid*	4.0			0.41	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Barium, Solid*	62			0.081	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Beryllium, Solid*	0.48			0.020	0.45	1	mg/Kg	181010		05/18/06 0335	tds
	Cadmium, Solid*	0.93			0.065	0.22	1	mg/Kg	181010		05/18/06 0335	tds
	Calcium, Solid*	32000			2.1	11	1	mg/Kg	181010		05/18/06 0335	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 278
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:15
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-4
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	18			0.11	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Cobalt, Solid*	6.7			0.13	0.56	1	mg/Kg	181010		05/18/06 0335	tds
	Copper, Solid*	17			0.25	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Iron, Solid*	14000			2.5	11	1	mg/Kg	181010		05/18/06 0335	tds
	Lead, Solid*	15			0.28	0.56	1	mg/Kg	181010		05/18/06 0335	tds
	Magnesium, Solid*	15000			1.1	11	1	mg/Kg	181010		05/18/06 0335	tds
	Manganese, Solid*	390			0.059	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Molybdenum, Solid*	1.2			0.51	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Nickel, Solid*	18			0.54	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Potassium, Solid*	960			6.7	56	1	mg/Kg	181010		05/18/06 0335	tds
	Selenium, Solid*	0.60	B		0.50	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Silver, Solid*	0.14	B		0.11	0.56	1	mg/Kg	181010		05/18/06 0335	tds
	Sodium, Solid*	110	B		88	110	1	mg/Kg	181010		05/18/06 0335	tds
	Thallium, Solid*	1.1	U		0.64	1.1	1	mg/Kg	181010		05/18/06 0335	tds
	Vanadium, Solid*	18			0.17	0.56	1	mg/Kg	181010		05/18/06 0335	tds
	Zinc, Solid*	67			1.5	2.2	1	mg/Kg	181010		05/18/06 0335	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	1.7	U		0.97	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	beta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	delta-BHC, 3541 Solid*	1.7	U		1.4	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	gamma-BHC (Lindane), 3541 Solid*	1.7	U		0.98	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Heptachlor, 3541 Solid*	1.7	U		0.91	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Aldrin, 3541 Solid*	1.7	U		0.89	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Heptachlor epoxide, 3541 Solid*	1.7	U		0.94	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endosulfan I, 3541 Solid*	1.7	U		1.0	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Dieldrin, 3541 Solid*	1.7	U		0.89	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	4,4'-DDE, 3541 Solid*	1.7	U		0.94	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endrin, 3541 Solid*	1.7	U		0.95	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endosulfan II, 3541 Solid*	1.7	U		1.0	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	4,4'-DDD, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endosulfan sulfate, 3541 Solid*	1.7	U		1.1	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	4,4'-DDT, 3541 Solid*	1.7	U		0.93	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Methoxychlor, 3541 Solid*	8.3	U		1.4	8.3	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	alpha-Chlordane, 3541 Solid*	1.7	U		0.89	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	gamma-Chlordane, 3541 Solid*	1.7	U		0.15	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Toxaphene, 3541 Solid*	17	U		11	17	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endrin aldehyde, 3541 Solid*	1.7	U		1.2	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Endrin ketone, 3541 Solid*	1.7	U		1.3	1.7	1.00000	ug/Kg	181796		05/26/06 1904	kdl
	Atrazine, 3541 Solid*	160	J		67	170	1.00000	ug/Kg	181796		05/26/06 1904	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	17	U		5.6	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
	Aroclor 1221, 3541 Solid*	17	U		4.6	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
	Aroclor 1232, 3541 Solid*	17	U		4.5	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
	Aroclor 1242, 3541 Solid*	17	U		4.9	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	17	U		3.6	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
	Aroclor 1254, 3541 Solid*	14	J		3.7	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
	Aroclor 1260, 3541 Solid*	17	U		3.3	17	1.00000	ug/Kg	181733		05/25/06 2217	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	110	U		32	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	110	U		30	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,3-Dichlorobenzene, Low Level Soil*	110	U		28	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,4-Dichlorobenzene, Low Level Soil*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,2-Dichlorobenzene, Low Level Soil*	110	U		33	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzyl alcohol, Low Level Soil*	220	U		100	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Methylphenol (o-cresol), Low Level Soil*	110	U		24	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	110	U		29	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Hexachloroethane, Low Level Soil*	110	U		35	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	110	U		61	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Chlorophenol, Low Level Soil*	110	U		27	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Nitrobenzene, Low Level Soil*	22	U		8.8	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	110	U		26	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	110	U		34	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzoic acid, Low Level Soil*	1100	U		230	1100	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Isophorone, Low Level Soil*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4-Dimethylphenol, Low Level Soil*	220	U		38	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Hexachlorobutadiene, Low Level Soil*	110	U		32	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Naphthalene, Low Level Soil*	22	U		5.3	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4-Dichlorophenol, Low Level Soil*	220	U		37	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Chloroaniline, Low Level Soil*	450	U		110	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4,6-Trichlorophenol, Low Level Soil*	220	U		30	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4,5-Trichlorophenol, Low Level Soil*	220	U		50	220	1.00000	ug/Kg	181661		05/25/06 0317	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	450	U		180	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Methylnaphthalene, Low Level Soil*	110	U		28	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Nitroaniline, Low Level Soil*	110	U		18	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Chloronaphthalene, Low Level Soil*	110	U		25	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Chloro-3-methylphenol, Low Level Soil*	220	U		51	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,6-Dinitrotoluene, Low Level Soil*	110	U		26	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2-Nitrophenol, Low Level Soil*	220	U		62	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	3-Nitroaniline, Low Level Soil*	220	U		41	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Dimethyl phthalate, Low Level Soil*	110	U		11	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4-Dinitrophenol, Low Level Soil*	450	U		180	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Acenaphthylene, Low Level Soil*	11	J		5.9	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	2,4-Dinitrotoluene, Low Level Soil*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Acenaphthene, Low Level Soil*	22	U		4.5	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Dibenzofuran, Low Level Soil*	110	U		15	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Nitrophenol, Low Level Soil*	450	U		180	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Fluorene, Low Level Soil*	22	U		5.2	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Nitroaniline, Low Level Soil*	220	U		47	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	110	U		19	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Hexachlorobenzene, Low Level Soil*	45	U		17	45	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Diethyl phthalate, Low Level Soil*	110	U		12	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	110	U		16	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Pentachlorophenol, Low Level Soil*	450	U		140	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	n-Nitrosodiphenylamine, Low Level Soil*	110	U		13	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	220	U		36	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Phenanthrene, Low Level Soil*	11	J		3.6	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Anthracene, Low Level Soil*	8.9	J	H	2.4	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Carbazole, Low Level Soil*	110	U		16	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Di-n-butyl phthalate, Low Level Soil*	110	U		18	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzidine, Low Level Soil*	1100	U		1100	1100	1.00000	ug/Kg	181661		05/25/06 0317	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	42		H	4.1	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Pyrene, Low Level Soil*	57		H	5.1	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Butyl benzyl phthalate, Low Level Soil*	110	U		13	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzo(a)anthracene, Low Level Soil*	29			4.9	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Chrysene, Low Level Soil*	45		H	5.9	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	3,3-Dichlorobenzidine, Low Level Soil*	450	U		94	450	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	110	U		54	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Di-n-octyl phthalate, Low Level Soil*	110	U		20	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzo(b)fluoranthene, Low Level Soil*	34		M	4.4	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzo(k)fluoranthene, Low Level Soil*	32		M	6.9	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzo(a)pyrene, Low Level Soil*	39		H	3.8	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	24		H	7.4	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	22	U		4.9	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzo(ghi)perylene, Low Level Soil*	32		H	5.0	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Caprolactam, Low Level Soil*	220	U		110	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Benzaldehyde, Low Level Soil*	220	U		100	220	1.00000	ug/Kg	181661		05/25/06 0317	glr
	Acetophenone, Low Level Soil*	110	U		32	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,1'-Biphenyl, Low Level Soil*	22	U		7.4	22	1.00000	ug/Kg	181661		05/25/06 0317	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	110	U		26	110	1.00000	ug/Kg	181661		05/25/06 0317	glr
Method	% Solids Determination											
	% Solids, Solid	73.1			0.10	0.10	1	%	180772		05/16/06 0949	pfk
	% Moisture, Solid	26.9			0.10	0.10	1	%	180772		05/16/06 0949	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	100			12	18	1	mg/Kg	181667		05/25/06 1609	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	23000			61	3400	1	mg/Kg	181745		05/26/06 1247	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.61	U		0.1	0.6	1	mg/Kg	181072		05/18/06 1147	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	6700			280	1200	1	mg/Kg	180912		05/17/06 1546	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.851					1	* g/cc	181472		05/18/06 1509	cls
9045C	pH (Soil)											
	pH, Solid	7.6			0.2	0.2	1	pH Units	181059		05/17/06 1409	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	370			27	100	10	mg/Kg	181344		05/23/06 0832	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	970			37	150	5	mg/Kg	181188		05/19/06 1404	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.047			0.0083	0.045	1	mg/Kg	181292		05/19/06 1531	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	8000			5.8	23	1	mg/Kg	181010		05/18/06 0340	tds
	Antimony, Solid*	2.3	U		0.50	2.3	1	mg/Kg	181010		05/18/06 0340	tds
	Arsenic, Solid*	2.9			0.43	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Barium, Solid*	63			0.083	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Beryllium, Solid*	0.48			0.021	0.46	1	mg/Kg	181010		05/18/06 0340	tds
	Cadmium, Solid*	0.59			0.067	0.23	1	mg/Kg	181010		05/18/06 0340	tds
	Calcium, Solid*	32000			2.1	12	1	mg/Kg	181010		05/18/06 0340	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 279
Date Sampled.....: 05/09/2006
Time Sampled.....: 09:45
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-5
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	16			0.12	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Cobalt, Solid*	7.3			0.14	0.58	1	mg/Kg	181010		05/18/06 0340	tds
	Copper, Solid*	16			0.25	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Iron, Solid*	16000			2.5	12	1	mg/Kg	181010		05/18/06 0340	tds
	Lead, Solid*	13			0.29	0.58	1	mg/Kg	181010		05/18/06 0340	tds
	Magnesium, Solid*	15000			1.2	12	1	mg/Kg	181010		05/18/06 0340	tds
	Manganese, Solid*	330			0.061	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Molybdenum, Solid*	0.95	B		0.53	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Nickel, Solid*	17			0.55	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Potassium, Solid*	1000			6.9	58	1	mg/Kg	181010		05/18/06 0340	tds
	Selenium, Solid*	0.69	B		0.52	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Silver, Solid*	0.58	U		0.12	0.58	1	mg/Kg	181010		05/18/06 0340	tds
	Sodium, Solid*	110	B		91	120	1	mg/Kg	181010		05/18/06 0340	tds
	Thallium, Solid*	1.2	U		0.66	1.2	1	mg/Kg	181010		05/18/06 0340	tds
	Vanadium, Solid*	19			0.17	0.58	1	mg/Kg	181010		05/18/06 0340	tds
	Zinc, Solid*	56			1.6	2.3	1	mg/Kg	181010		05/18/06 0340	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
8081A	Organochlorine Pesticide Analysis											
	alpha-BHC, 3541 Solid*	10	U		5.8	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	beta-BHC, 3541 Solid*	10	U		8.4	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	delta-BHC, 3541 Solid*	10	U		8.4	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	gamma-BHC (Lindane), 3541 Solid*	10	U		5.9	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Heptachlor, 3541 Solid*	10	U		5.5	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Aldrin, 3541 Solid*	10	U		5.4	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Heptachlor epoxide, 3541 Solid*	10	U		5.7	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endosulfan I, 3541 Solid*	10	U		6.0	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Dieldrin, 3541 Solid*	10	U		5.4	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	4,4'-DDE, 3541 Solid*	10	U		5.7	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endrin, 3541 Solid*	10	U		5.7	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endosulfan II, 3541 Solid*	10	U		6.0	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	4,4'-DDD, 3541 Solid*	10	U		6.6	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endosulfan sulfate, 3541 Solid*	10	U		6.6	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	4,4'-DDT, 3541 Solid*	10	U		5.6	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Methoxychlor, 3541 Solid*	50	U		8.4	50	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	alpha-Chlordane, 3541 Solid*	10	U		5.4	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	gamma-Chlordane, 3541 Solid*	10	U		0.90	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Toxaphene, 3541 Solid*	100	U		66	100	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endrin aldehyde, 3541 Solid*	10	U		7.2	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Endrin ketone, 3541 Solid*	10	U		7.8	10	5.00000	ug/Kg	181796		05/26/06 1928	kdl
	Atrazine, 3541 Solid*	540	J		400	1000	5.00000	ug/Kg	181796		05/26/06 1928	kdl
8082	PCB Analysis											
	Aroclor 1016, 3541 Solid*	20	U		6.7	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
	Aroclor 1221, 3541 Solid*	20	U		5.5	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
	Aroclor 1232, 3541 Solid*	20	U		5.4	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
	Aroclor 1242, 3541 Solid*	20	U		5.9	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Aroclor 1248, 3541 Solid*	69			4.3	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
	Aroclor 1254, 3541 Solid*	59			4.5	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
	Aroclor 1260, 3541 Solid*	20			4.0	20	1.00000	ug/Kg	181733		05/25/06 2242	bjt
8270C	Semivolatile Organics											
	Phenol, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Bis(2-chloroethyl)ether, Low Level Soil*	130	U		35	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,3-Dichlorobenzene, Low Level Soil*	130	U		34	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,4-Dichlorobenzene, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,2-Dichlorobenzene, Low Level Soil*	130	U		40	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzyl alcohol, Low Level Soil*	270	U		120	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Methylphenol (o-cresol), Low Level Soil*	130	U		29	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,2-oxybis (1-chloropropane), Low Level S*il	130	U		35	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	n-Nitroso-di-n-propylamine, Low Level Soi*	130	U		30	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Hexachloroethane, Low Level Soil*	130	U		42	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Methylphenol (m/p-cresol), Low Level So*l	130	U		73	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Chlorophenol, Low Level Soil*	130	U		32	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Nitrobenzene, Low Level Soil*	27	U		10	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Bis(2-chloroethoxy)methane, Low Level Soi*	130	U		31	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,2,4-Trichlorobenzene, Low Level Soil*	130	U		41	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzoic acid, Low Level Soil*	1300	U		270	1300	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Isophorone, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4-Dimethylphenol, Low Level Soil*	270	U		46	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Hexachlorobutadiene, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Naphthalene, Low Level Soil*	7.5	J		6.3	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4-Dichlorophenol, Low Level Soil*	270	U		44	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Chloroaniline, Low Level Soil*	540	U		130	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4,6-Trichlorophenol, Low Level Soil*	270	U		35	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4,5-Trichlorophenol, Low Level Soil*	270	U		60	270	1.00000	ug/Kg	181661		05/25/06 0339	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Hexachlorocyclopentadiene, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Methylnaphthalene, Low Level Soil*	130	U		34	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Nitroaniline, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Chloronaphthalene, Low Level Soil*	130	U		30	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Chloro-3-methylphenol, Low Level Soil*	270	U		60	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,6-Dinitrotoluene, Low Level Soil*	130	U		31	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2-Nitrophenol, Low Level Soil*	270	U		74	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	3-Nitroaniline, Low Level Soil*	270	U		49	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Dimethyl phthalate, Low Level Soil*	130	U		13	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4-Dinitrophenol, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Acenaphthylene, Low Level Soil*	71			7.0	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	2,4-Dinitrotoluene, Low Level Soil*	130	U		23	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Acenaphthene, Low Level Soil*	20	J		5.3	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Dibenzofuran, Low Level Soil*	130	U		18	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Nitrophenol, Low Level Soil*	540	U		210	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Fluorene, Low Level Soil*	29			6.2	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Nitroaniline, Low Level Soil*	270	U		56	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Bromophenyl phenyl ether, Low Level Soi*	130	U		23	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Hexachlorobenzene, Low Level Soil*	54	U		20	54	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Diethyl phthalate, Low Level Soil*	130	U		15	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4-Chlorophenyl phenyl ether, Low Level So*l	130	U		19	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Pentachlorophenol, Low Level Soil*	540	U		170	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	n-Nitrosodiphenylamine, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	4,6-Dinitro-2-methylphenol, Low Level Soi*	270	U		43	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Phenanthrene, Low Level Soil*	300			4.3	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Anthracene, Low Level Soil*	160		H	2.9	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Carbazole, Low Level Soil*	130	U		19	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Di-n-butyl phthalate, Low Level Soil*	130	U		22	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzidine, Low Level Soil*	1300	U		1300	1300	1.00000	ug/Kg	181661		05/25/06 0339	glr

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498 Date:05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Fluoranthene, Low Level Soil*	710		H	4.9	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Pyrene, Low Level Soil*	640		H	6.0	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Butyl benzyl phthalate, Low Level Soil*	130	U		16	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzo(a)anthracene, Low Level Soil*	410			5.9	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Chrysene, Low Level Soil*	480		H	7.0	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	3,3-Dichlorobenzidine, Low Level Soil*	540	U		110	540	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Bis(2-ethylhexyl)phthalate, Low Level Soi*	130	J		64	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Di-n-octyl phthalate, Low Level Soil*	130	U		24	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzo(b)fluoranthene, Low Level Soil*	330		M	5.2	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzo(k)fluoranthene, Low Level Soil*	300		M	8.2	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzo(a)pyrene, Low Level Soil*	430			4.5	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Indeno(1,2,3-cd)pyrene, Low Level Soil*	210		H	8.9	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Dibenzo(a,h)anthracene, Low Level Soil*	110		H	5.8	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzo(ghi)perylene, Low Level Soil*	240			6.0	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Caprolactam, Low Level Soil*	270	U		130	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Benzaldehyde, Low Level Soil*	270	U		120	270	1.00000	ug/Kg	181661		05/25/06 0339	glr
	Acetophenone, Low Level Soil*	130	U		38	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,1'-Biphenyl, Low Level Soil*	27	U		8.9	27	1.00000	ug/Kg	181661		05/25/06 0339	glr
	1,2,4,5-Tetrachlorobenzene, Low Level Soi*	130	U		31	130	1.00000	ug/Kg	181661		05/25/06 0339	glr
Method	% Solids Determination											
	% Solids, Solid	61.9			0.10	0.10	1	%	180772		05/16/06 0950	pfk
	% Moisture, Solid	38.1			0.10	0.10	1	%	180772		05/16/06 0950	pfk
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)											
	Ammonia(NH3+NH4),as N, Solid*	180			19	29	1	mg/Kg	181667		05/25/06 1609	mtb
HACH 8000	Chemical Oxygen Demand (HACH)											
	Chemical Oxygen Demand (COD), Solid*	58000			49	2700	1	mg/Kg	181745		05/26/06 1250	kd

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
9014/9010B	Cyanide (Colorimetric)											
	Cyanide, Total, Solid*	0.71	U		0.1	0.7	1	mg/Kg	181072		05/18/06 1147	mtb
Lloyd Kahn	Total Organic Carbon (Soils)											
	TOC Average Duplicates, Solid	16000			400	1700	1	mg/Kg	180912		05/17/06 1605	cls
D5057	Density/Specific Gravity											
	Density, Solid	1.598					1	* g/cc	181472		05/18/06 1530	cls
9045C	pH (Soil)											
	pH, Solid	7.1			0.2	0.2	1	pH Units	181059		05/17/06 1414	pmf
4500PE	Phosphorous, All Forms											
	Phosphorous, Total as P, Solid*	1300			39	140	10	mg/Kg	181344		05/23/06 0832	pmf
351.3	Nitrogen, Total Kjeldahl											
	Nitrogen, Total Kjeldahl as N (TKN), Soli*	1300			54	220	5	mg/Kg	181188		05/19/06 1404	mtb
7471A	Mercury (CVAA) Solids											
	Mercury, Solid*	0.14			0.0099	0.053	1	mg/Kg	181292		05/19/06 1538	gok
6010B	Metals Analysis (ICAP Trace)											
	Aluminum, Solid*	12000			6.6	26	1	mg/Kg	181010		05/18/06 0345	tds
	Antimony, Solid*	2.6	U		0.56	2.6	1	mg/Kg	181010		05/18/06 0345	tds
	Arsenic, Solid*	5.8			0.48	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Barium, Solid*	100			0.094	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Beryllium, Solid*	0.72			0.024	0.52	1	mg/Kg	181010		05/18/06 0345	tds
	Cadmium, Solid*	2.0			0.076	0.26	1	mg/Kg	181010		05/18/06 0345	tds
	Calcium, Solid*	15000			2.4	13	1	mg/Kg	181010		05/18/06 0345	tds

* In Description = Dry Wgt.

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LABORATORY TEST RESULTS

Job Number: 246498

Date:05/30/2006

CUSTOMER: Illinois State Water Survey

PROJECT: LACON AREA

ATTN: James Slowikowski

Customer Sample ID: 280
Date Sampled.....: 05/09/2006
Time Sampled.....: 10:20
Sample Matrix.....: Sediment

Laboratory Sample ID: 246498-6
Date Received.....: 05/13/2006
Time Received.....: 11:00

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Chromium, Solid*	31			0.13	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Cobalt, Solid*	11			0.16	0.65	1	mg/Kg	181010		05/18/06 0345	tds
	Copper, Solid*	30			0.29	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Iron, Solid*	24000			2.9	13	1	mg/Kg	181010		05/18/06 0345	tds
	Lead, Solid*	30			0.33	0.65	1	mg/Kg	181010		05/18/06 0345	tds
	Magnesium, Solid*	6900			1.3	13	1	mg/Kg	181010		05/18/06 0345	tds
	Manganese, Solid*	1000			0.069	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Molybdenum, Solid*	2.0			0.60	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Nickel, Solid*	36			0.63	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Potassium, Solid*	1400			7.8	65	1	mg/Kg	181010		05/18/06 0345	tds
	Selenium, Solid*	1.1	B		0.59	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Silver, Solid*	0.29	B		0.13	0.65	1	mg/Kg	181010		05/18/06 0345	tds
	Sodium, Solid*	120	B		100	130	1	mg/Kg	181010		05/18/06 0345	tds
	Thallium, Solid*	1.3	U		0.75	1.3	1	mg/Kg	181010		05/18/06 0345	tds
	Vanadium, Solid*	23			0.20	0.65	1	mg/Kg	181010		05/18/06 0345	tds
	Zinc, Solid*	160			1.8	2.6	1	mg/Kg	181010		05/18/06 0345	tds

* In Description = Dry Wgt.

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LABORATORY CHRONICLE

Job Number: 246498 Date: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Lab ID: 246498-1 Client ID: 275 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772	05/16/2006	0941	
3050B	Acid Digestion: Solids (ICAP)	1	180753		05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1236	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072	05/18/2006	1146	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1347	
EDD	Electronic Data Deliverable	1					
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324		05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177	05/19/2006	1523	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753	05/18/2006	0322	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1607	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1402	5
8081A	Organochlorine Pesticide Analysis	1	181796	181295	05/26/2006	1659	5.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	2013	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0830	10
7470/7471	SW846 Digestion (Hg)	1	181177		05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324	05/25/2006	0150	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	1430	
9045C	pH (Soil)	1	181059	181059	05/17/2006	1347	

Lab ID: 246498-2 Client ID: 276 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772	05/16/2006	0943	
3050B	Acid Digestion: Solids (ICAP)	1	180753		05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1239	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072	05/18/2006	1147	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1408	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324		05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177	05/19/2006	1525	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753	05/18/2006	0326	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1607	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1403	5
8081A	Organochlorine Pesticide Analysis	1	181796	181295	05/26/2006	1749	1.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	2038	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0831	10
7470/7471	SW846 Digestion (Hg)	1	181177		05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324	05/25/2006	0211	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	1446	
9045C	pH (Soil)	1	181059	181059	05/17/2006	1352	

Lab ID: 246498-3 Client ID: 277 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772	05/16/2006	0946	
3050B	Acid Digestion: Solids (ICAP)	1	180753		05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1242	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072	05/18/2006	1147	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1428	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324		05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177	05/19/2006	1527	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753	05/18/2006	0331	

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LABORATORY CHRONICLE

Job Number: 246498 Date: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Lab ID: 246498-3 Client ID: 277 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1607	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1403	2
8081A	Organochlorine Pesticide Analysis	1	181796	181295		05/26/2006	1814	1.00000
8082	PCB Analysis	1	181733	181309		05/25/2006	2103	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0831	10
7470/7471	SW846 Digestion (Hg)	1	181177			05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324		05/25/2006	0233	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1502	
9045C	pH (Soil)	1	181059	181059		05/17/2006	1358	

Lab ID: 246498-4 Client ID: 278 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772		05/16/2006	0947	
3050B	Acid Digestion: Solids (ICAP)	1	180753			05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1244	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072		05/18/2006	1147	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1449	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324			05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177		05/19/2006	1529	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753		05/18/2006	0335	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1608	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1403	2
8081A	Organochlorine Pesticide Analysis	1	181796	181295		05/26/2006	1839	1.00000
8082	PCB Analysis	1	181733	181309		05/25/2006	2152	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0831	10
7470/7471	SW846 Digestion (Hg)	1	181177			05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324		05/25/2006	0255	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1515	
9045C	pH (Soil)	1	181059	181059		05/17/2006	1403	

Lab ID: 246498-5 Client ID: 279 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772		05/16/2006	0949	
3050B	Acid Digestion: Solids (ICAP)	1	180753			05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745		05/26/2006	1247	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072		05/18/2006	1147	
D5057	Density/Specific Gravity	1	181472	181472		05/18/2006	1509	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295			05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309			05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324			05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177		05/19/2006	1531	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753		05/18/2006	0340	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667		05/25/2006	1609	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188		05/19/2006	1404	5
8081A	Organochlorine Pesticide Analysis	1	181796	181295		05/26/2006	1904	1.00000
8082	PCB Analysis	1	181733	181309		05/25/2006	2217	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344		05/23/2006	0832	10
7470/7471	SW846 Digestion (Hg)	1	181177			05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324		05/25/2006	0317	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912		05/17/2006	1546	
9045C	pH (Soil)	1	181059	181059		05/17/2006	1409	

Lab ID: 246498-6 Client ID: 280 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT	#(S)	DATE/TIME ANALYZED		DILUTION
Method	% Solids Determination	1	180772	180772		05/16/2006	0950	

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LABORATORY CHRONICLE

Job Number: 246498 Date: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Lab ID: 246498-6 Client ID: 280 Date Recvd: 05/13/2006 Sample Date: 05/09/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #(S)	DATE/TIME ANALYZED		DILUTION
3050B	Acid Digestion: Solids (ICAP)	1	180753		05/15/2006	1800	
HACH 8000	Chemical Oxygen Demand (HACH)	1	181745	181745	05/26/2006	1250	
9014/9010B	Cyanide (Colorimetric)	1	181072	181072	05/18/2006	1147	
D5057	Density/Specific Gravity	1	181472	181472	05/18/2006	1530	
3541	Extraction Soxhlet (Chlor.Pest)	1	181295		05/22/2006	1600	
3541	Extraction Soxhlet (PCBs)	1	181309		05/22/2006	1600	
3550B	Extraction Ultrasonic (SVOC)	1	181324		05/23/2006	1000	
7471A	Mercury (CVAA) Solids	1	181292	181177	05/19/2006	1538	
6010B	Metals Analysis (ICAP Trace)	1	181010	180753	05/18/2006	0345	
4500NH3B+C	Nitrogen, Ammonia (Dist./Nessler.)	1	181667	181667	05/25/2006	1609	
351.3	Nitrogen, Total Kjeldahl	1	181188	181188	05/19/2006	1404	5
8081A	Organochlorine Pesticide Analysis	1	181796	181295	05/26/2006	1928	5.00000
8082	PCB Analysis	1	181733	181309	05/25/2006	2242	1.00000
4500PE	Phosphorous, All Forms	1	181344	181344	05/23/2006	0832	10
7470/7471	SW846 Digestion (Hg)	1	181177		05/19/2006	1330	
8270C	Semivolatile Organics	1	181661	181324	05/25/2006	0339	1.00000
Lloyd Kahn	Total Organic Carbon (Soils)	1	180912	180912	05/17/2006	1605	
9045C	pH (Soil)	1	181059	181059	05/17/2006	1414	

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SURROGATE RECOVERIES REPORT

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: Organochlorine Pesticide Analysis Test Matrix...: 3541 Solid Prep Batch..: 181295
Method Code...: 8081 Batch(s).....: 181796

Lab ID	DT	Sample ID	Date	DCB	TCX
LCS			05/26/2006	78	65
MB			05/26/2006	75	58
246498- 1		275	05/26/2006	94	80
246498- 2		276	05/26/2006	79	72
246498- 3		277	05/26/2006	75	60
246498- 4		278	05/26/2006	75	66
246498- 5		279	05/26/2006	72	66
246498- 6		280	05/26/2006	74	70

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	20 - 152
TCX	Tetrachloro-m-xylene (surr)	30 - 124

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SURROGATE RECOVERIES REPORT

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: PCB Analysis Test Matrix...: 3541 Solid Prep Batch..: 181309
Method Code...: 8082 Batch(s).....: 181733

Lab ID	DT	Sample ID	Date	DCB	TCX
LCS			05/25/2006	79	65
MB			05/25/2006	76	60
246498- 1		275	05/25/2006	78	69
246498- 2		276	05/25/2006	75	65
246498- 3		277	05/25/2006	72	56
246498- 4		278	05/25/2006	70	62
246498- 5		279	05/25/2006	72	62
246498- 6		280	05/25/2006	69*	61

Test	Test Description	Limits
DCB	Decachlorobiphenyl (surr)	70 - 125
TCX	Tetrachloro-m-xylene (surr)	44 - 135

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SURROGATE RECOVERIES REPORT

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Method.....: Semivolatile Organics
Method Code...: 8270
Test Matrix...: Low Level Soil
Batch(s).....: 181661
Prep Batch..: 181324

Lab ID	DT	Sample ID	Date	246TBP	2FLUBP	2FLUPH	NITRD5	PHEND5	TERD14
LCS			05/24/2006	103	68	67	63	72	77
MB			05/24/2006	90	71	71	69	72	85
246498- 1		275	05/25/2006	95	74	66	63	67	82
246498- 2		276	05/25/2006	82	63	59	57	61	73
246498- 3		277	05/25/2006	91	68	64	62	67	79
246498- 4		278	05/25/2006	105	72	72	66	71	82
246498- 5		279	05/25/2006	99	73	70	66	66	81
246498- 6		280	05/25/2006	91	71	69	65	68	76

Test	Test Description	Limits
246TBP	2,4,6-Tribromophenol (surr)	20 - 150
2FLUBP	2-Fluorobiphenyl (surr)	41 - 108
2FLUPH	2-Fluorophenol (surr)	35 - 118
NITRD5	Nitrobenzene-d5 (surr)	22 - 108
PHEND5	Phenol-d5 (surr)	21 - 129
TERD14	Terphenyl-d14 (surr)	37 - 137

QUALITY CONTROL RESULTS

Job Number.: 246498

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN: James Slowikowski

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06DWLCPFC	181295-002		05/26/2006	0408

Test Method.....: 8081A
Method Description.: Organochlorine Pesticide Analysis

Equipment Code....: INST1516
Batch.....: 181796

Analyst...: kdl

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	9.993		13.330	1.700 U	75	%	29-120	
beta-BHC, 3541 Solid	ug/Kg	10.950		13.330	1.700 U	82	%	51-123	
delta-BHC, 3541 Solid	ug/Kg	11.090		13.330	1.700 U	83	%	51-125	
gamma-BHC (Lindane), 3541 Solid	ug/Kg	10.577		13.330	1.700 U	79	%	37-121	
Heptachlor, 3541 Solid	ug/Kg	10.747		13.330	1.700 U	81	%	33-124	
Aldrin, 3541 Solid	ug/Kg	10.177		13.330	1.700 U	76	%	35-120	
Heptachlor epoxide, 3541 Solid	ug/Kg	11.113		13.330	1.700 U	83	%	51-116	
Endosulfan I, 3541 Solid	ug/Kg	10.830		13.330	1.700 U	81	%	27-100	
Dieldrin, 3541 Solid	ug/Kg	11.230		13.330	1.700 U	84	%	55-124	
4,4'-DDE, 3541 Solid	ug/Kg	11.463		13.330	1.700 U	86	%	59-120	
Endrin, 3541 Solid	ug/Kg	11.403		13.330	1.700 U	86	%	49-136	
Endosulfan II, 3541 Solid	ug/Kg	10.970		13.330	1.700 U	82	%	37-105	
4,4'-DDD, 3541 Solid	ug/Kg	11.833		13.330	1.700 U	89	%	59-130	
Endosulfan sulfate, 3541 Solid	ug/Kg	10.543		13.330	1.700 U	79	%	54-129	
4,4'-DDT, 3541 Solid	ug/Kg	11.787		13.330	1.700 U	88	%	58-130	
Methoxychlor, 3541 Solid	ug/Kg	11.273		13.330	8.300 U	85	%	57-132	
alpha-Chlordane, 3541 Solid	ug/Kg	11.073		13.330	1.700 U	83	%	64-123	
gamma-Chlordane, 3541 Solid	ug/Kg	11.187		13.330	1.700 U	84	%	59-121	
Endrin aldehyde, 3541 Solid	ug/Kg	10.483		13.330	1.700 U	79	%	31-110	
Endrin ketone, 3541 Solid	ug/Kg	10.663		13.330	1.700 U	80	%	52-131	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181295-001		05/26/2006	0343

Test Method.....: 8081A Equipment Code....: INST1516 Analyst...: kdl
Method Description.: Organochlorine Pesticide Analysis Batch.....: 181796

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
alpha-BHC, 3541 Solid	ug/Kg	1.700	U							
beta-BHC, 3541 Solid	ug/Kg	1.700	U							
delta-BHC, 3541 Solid	ug/Kg	1.700	U							
gamma-BHC (Lindane), 3541 Solid	ug/Kg	1.700	U							
Heptachlor, 3541 Solid	ug/Kg	1.700	U							
Aldrin, 3541 Solid	ug/Kg	1.700	U							
Heptachlor epoxide, 3541 Solid	ug/Kg	1.700	U							
Endosulfan I, 3541 Solid	ug/Kg	1.700	U							
Dieldrin, 3541 Solid	ug/Kg	1.700	U							
4,4'-DDE, 3541 Solid	ug/Kg	1.700	U							
Endrin, 3541 Solid	ug/Kg	1.700	U							
Endosulfan II, 3541 Solid	ug/Kg	1.700	U							
4,4'-DDD, 3541 Solid	ug/Kg	1.700	U							
Endosulfan sulfate, 3541 Solid	ug/Kg	1.700	U							
4,4'-DDT, 3541 Solid	ug/Kg	1.700	U							
Methoxychlor, 3541 Solid	ug/Kg	8.300	U							
alpha-Chlordane, 3541 Solid	ug/Kg	1.700	U							
gamma-Chlordane, 3541 Solid	ug/Kg	1.700	U							
Toxaphene, 3541 Solid	ug/Kg	16.700	U							
Endrin aldehyde, 3541 Solid	ug/Kg	1.700	U							
Endrin ketone, 3541 Solid	ug/Kg	1.700	U							
Atrazine, 3541 Solid	ug/Kg	167.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLPCBA	181309-002		05/25/2006	1312

Test Method.....: 8082
Method Description.: PCB Analysis

Equipment Code....: INST3132
Batch.....: 181733

Analyst...: bjt

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	122.727		166.700	16.700 U	74	%	52-105	
Aroclor 1260, 3541 Solid	ug/Kg	132.060		167.000	16.700 U	79	%	63-122	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181309-001		05/25/2006	1247

Test Method.....: 8082 Equipment Code....: INST3132 Analyst...: bjt
Method Description.: PCB Analysis Batch.....: 181733

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aroclor 1016, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1221, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1232, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1242, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1248, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1254, 3541 Solid	ug/Kg	16.700 U							
Aroclor 1260, 3541 Solid	ug/Kg	16.700 U							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLBLKB	181324-002		05/24/2006	1959

Test Method.....: 8270C
Method Description.: Semivolatile Organics

Equipment Code....: GCL12
Batch.....: 181661

Analyst...: glr

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	1151.608		1667.000	167.000 U	69	%	34-119	
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	1195.228		1667.000	167.000 U	72	%	42-101	
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	1163.375		1667.000	167.000 U	70	%	48-100	
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	1167.625		1667.000	167.000 U	70	%	50-100	
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	1196.278		1667.000	167.000 U	72	%	49-104	
Benzyl alcohol, Low Level Soil	ug/Kg	1150.042		1667.000	330.000 U	69	%	14-150	
2-Methylphenol (o-cresol), Low Level S	ug/Kg	1238.038		1667.000	167.000 U	74	%	36-110	
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	1153.355		1667.000	167.000 U	69	%	48-100	
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	1184.011		1667.000	167.000 U	71	%	49-138	
Hexachloroethane, Low Level Soil	ug/Kg	1187.111		1667.000	167.000 U	71	%	46-100	
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	1289.107		1667.000	167.000 U	77	%	33-114	
2-Chlorophenol, Low Level Soil	ug/Kg	1232.654		1667.000	167.000 U	74	%	52-103	
Nitrobenzene, Low Level Soil	ug/Kg	1217.994		1667.000	33.000 U	73	%	50-100	
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	1212.578		1667.000	167.000 U	73	%	55-116	
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	1280.511		1667.000	167.000 U	77	%	53-107	
Benzoic acid, Low Level Soil	ug/Kg	1607.654	J	1667.000	1670.000 U	96	%	40-143	
Isophorone, Low Level Soil	ug/Kg	1211.075		1667.000	167.000 U	73	%	52-116	
2,4-Dimethylphenol, Low Level Soil	ug/Kg	1269.714		1667.000	330.000 U	76	%	11-115	
Hexachlorobutadiene, Low Level Soil	ug/Kg	1298.380		1667.000	167.000 U	78	%	52-118	
Naphthalene, Low Level Soil	ug/Kg	1224.181		1667.000	33.000 U	73	%	49-100	
2,4-Dichlorophenol, Low Level Soil	ug/Kg	1324.573		1667.000	330.000 U	79	%	58-103	
4-Chloroaniline, Low Level Soil	ug/Kg	1134.112		1667.000	670.000 U	68	%	15-114	
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	1380.956		1667.000	330.000 U	83	%	57-105	
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	1474.779		1667.000	330.000 U	88	%	62-118	
Hexachlorocyclopentadiene, Low Level S	ug/Kg	1350.953		1667.000	670.000 U	81	%	32-100	
2-Methylnaphthalene, Low Level Soil	ug/Kg	1743.499		1667.000	167.000 U	105	%	30-115	
2-Nitroaniline, Low Level Soil	ug/Kg	1324.677		1667.000	167.000 U	79	%	55-106	
2-Chloronaphthalene, Low Level Soil	ug/Kg	1293.297		1667.000	167.000 U	78	%	59-114	
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	1329.303		1667.000	330.000 U	80	%	56-110	
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	1633.340		1667.000	167.000 U	98	%	62-111	
2-Nitrophenol, Low Level Soil	ug/Kg	1262.041		1667.000	330.000 U	76	%	53-102	
3-Nitroaniline, Low Level Soil	ug/Kg	1407.226		1667.000	330.000 U	84	%	28-100	
Dimethyl phthalate, Low Level Soil	ug/Kg	1425.342		1667.000	167.000 U	86	%	63-105	
2,4-Dinitrophenol, Low Level Soil	ug/Kg	1461.205		1667.000	670.000 U	88	%	44-139	
Acenaphthylene, Low Level Soil	ug/Kg	1323.080		1667.000	33.000 U	79	%	50-103	
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	1435.616		1667.000	167.000 U	86	%	61-113	
Acenaphthene, Low Level Soil	ug/Kg	1284.224		1667.000	33.000 U	77	%	51-100	
Dibenzofuran, Low Level Soil	ug/Kg	1313.557		1667.000	167.000 U	79	%	49-103	
4-Nitrophenol, Low Level Soil	ug/Kg	1777.146		1667.000	670.000 U	107	%	45-129	
Fluorene, Low Level Soil	ug/Kg	1356.980		1667.000	33.000 U	81	%	51-109	
4-Nitroaniline, Low Level Soil	ug/Kg	1410.576		1667.000	330.000 U	85	%	32-111	
4-Bromophenyl phenyl ether, Low Level	ug/Kg	1440.552		1667.000	167.000 U	86	%	62-108	
Hexachlorobenzene, Low Level Soil	ug/Kg	1512.588		1667.000	67.000 U	91	%	62-105	
Diethyl phthalate, Low Level Soil	ug/Kg	1397.559		1667.000	167.000 U	84	%	62-110	
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	1423.706		1667.000	167.000 U	85	%	62-106	
Pentachlorophenol, Low Level Soil	ug/Kg	1582.628		1667.000	670.000 U	95	%	43-122	
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	1362.010		1667.000	167.000 U	82	%	63-108	
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	1403.396		1667.000	330.000 U	84	%	67-130	
Phenanthrene, Low Level Soil	ug/Kg	1574.041		1667.000	33.000 U	94	%	50-110	
Anthracene, Low Level Soil	ug/Kg	1277.681		1667.000	33.000 U	77	%	51-110	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	06EWLBLKB	181324-002		05/24/2006	1959

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Low Level Soil	ug/Kg	1346.873		1667.000	167.000 U	81	%	49-131	
Di-n-butyl phthalate, Low Level Soil	ug/Kg	1315.747		1667.000	167.000 U	79	%	51-130	
Benzidine, Low Level Soil	ug/Kg	781.892	J	1670.000	1670.000 U	47	%	10-100	
Fluoranthene, Low Level Soil	ug/Kg	1400.006		1667.000	33.000 U	84	%	55-122	
Pyrene, Low Level Soil	ug/Kg	1308.477		1667.000	33.000 U	79	%	41-121	
Butyl benzyl phthalate, Low Level Soil	ug/Kg	1336.563		1667.000	167.000 U	80	%	56-113	
Benzo(a)anthracene, Low Level Soil	ug/Kg	1344.880		1667.000	33.000 U	81	%	49-119	
Chrysene, Low Level Soil	ug/Kg	1489.885		1667.000	33.000 U	89	%	39-124	
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	1550.971		1667.000	670.000 U	93	%	22-106	
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	1324.677		1667.000	167.000 U	79	%	49-144	
Di-n-octyl phthalate, Low Level Soil	ug/Kg	1202.041		1667.000	167.000 U	72	%	45-130	
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	1324.417		1667.000	33.000 U	79	%	44-132	
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	1396.113		1667.000	33.000 U	84	%	43-141	
Benzo(a)pyrene, Low Level Soil	ug/Kg	1347.840		1667.000	33.000 U	81	%	45-129	
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	1417.909		1667.000	33.000 U	85	%	36-138	
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	1450.689		1667.000	33.000 U	87	%	30-144	
Benzo(ghi)perylene, Low Level Soil	ug/Kg	1435.799		1667.000	33.000 U	86	%	41-129	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181324-001		05/24/2006	1854

Test Method.....: 8270C Equipment Code....: GCL12 Analyst...: glr
Method Description.: Semivolatile Organics Batch.....: 181661

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Phenol, Low Level Soil	ug/Kg	167.000	U							
Bis(2-chloroethyl)ether, Low Level Soi	ug/Kg	167.000	U							
1,3-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
1,4-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
1,2-Dichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
Benzyl alcohol, Low Level Soil	ug/Kg	330.000	U							
2-Methylphenol (o-cresol), Low Level S	ug/Kg	167.000	U							
2,2-oxybis (1-chloropropane), Low Leve	ug/Kg	167.000	U							
n-Nitroso-di-n-propylamine, Low Level	ug/Kg	167.000	U							
Hexachloroethane, Low Level Soil	ug/Kg	167.000	U							
4-Methylphenol (m/p-cresol), Low Level	ug/Kg	167.000	U							
2-Chlorophenol, Low Level Soil	ug/Kg	167.000	U							
Nitrobenzene, Low Level Soil	ug/Kg	33.000	U							
Bis(2-chloroethoxy)methane, Low Level	ug/Kg	167.000	U							
1,2,4-Trichlorobenzene, Low Level Soil	ug/Kg	167.000	U							
Benzoic acid, Low Level Soil	ug/Kg	1670.000	U							
Isophorone, Low Level Soil	ug/Kg	167.000	U							
2,4-Dimethylphenol, Low Level Soil	ug/Kg	330.000	U							
Hexachlorobutadiene, Low Level Soil	ug/Kg	167.000	U							
Naphthalene, Low Level Soil	ug/Kg	33.000	U							
2,4-Dichlorophenol, Low Level Soil	ug/Kg	330.000	U							
4-Chloroaniline, Low Level Soil	ug/Kg	670.000	U							
2,4,6-Trichlorophenol, Low Level Soil	ug/Kg	330.000	U							
2,4,5-Trichlorophenol, Low Level Soil	ug/Kg	330.000	U							
Hexachlorocyclopentadiene, Low Level S	ug/Kg	670.000	U							
2-Methylnaphthalene, Low Level Soil	ug/Kg	167.000	U							
2-Nitroaniline, Low Level Soil	ug/Kg	167.000	U							
2-Chloronaphthalene, Low Level Soil	ug/Kg	167.000	U							
4-Chloro-3-methylphenol, Low Level Soi	ug/Kg	330.000	U							
2,6-Dinitrotoluene, Low Level Soil	ug/Kg	167.000	U							
2-Nitrophenol, Low Level Soil	ug/Kg	330.000	U							
3-Nitroaniline, Low Level Soil	ug/Kg	330.000	U							
Dimethyl phthalate, Low Level Soil	ug/Kg	167.000	U							
2,4-Dinitrophenol, Low Level Soil	ug/Kg	670.000	U							
Acenaphthylene, Low Level Soil	ug/Kg	33.000	U							
2,4-Dinitrotoluene, Low Level Soil	ug/Kg	167.000	U							
Acenaphthene, Low Level Soil	ug/Kg	33.000	U							
Dibenzofuran, Low Level Soil	ug/Kg	167.000	U							
4-Nitrophenol, Low Level Soil	ug/Kg	670.000	U							
Fluorene, Low Level Soil	ug/Kg	33.000	U							
4-Nitroaniline, Low Level Soil	ug/Kg	330.000	U							
4-Bromophenyl phenyl ether, Low Level	ug/Kg	167.000	U							
Hexachlorobenzene, Low Level Soil	ug/Kg	67.000	U							
Diethyl phthalate, Low Level Soil	ug/Kg	167.000	U							
4-Chlorophenyl phenyl ether, Low Level	ug/Kg	167.000	U							
Pentachlorophenol, Low Level Soil	ug/Kg	670.000	U							
n-Nitrosodiphenylamine, Low Level Soil	ug/Kg	167.000	U							
4,6-Dinitro-2-methylphenol, Low Level	ug/Kg	330.000	U							
Phenanthrene, Low Level Soil	ug/Kg	33.000	U							
Anthracene, Low Level Soil	ug/Kg	33.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank		181324-001		05/24/2006	1854

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Carbazole, Low Level Soil	ug/Kg	167.000	U							
Di-n-butyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzidine, Low Level Soil	ug/Kg	1670.000	U							
Fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Pyrene, Low Level Soil	ug/Kg	33.000	U							
Butyl benzyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzo(a)anthracene, Low Level Soil	ug/Kg	33.000	U							
Chrysene, Low Level Soil	ug/Kg	33.000	U							
3,3-Dichlorobenzidine, Low Level Soil	ug/Kg	670.000	U							
Bis(2-ethylhexyl)phthalate, Low Level	ug/Kg	167.000	U							
Di-n-octyl phthalate, Low Level Soil	ug/Kg	167.000	U							
Benzo(b)fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Benzo(k)fluoranthene, Low Level Soil	ug/Kg	33.000	U							
Benzo(a)pyrene, Low Level Soil	ug/Kg	33.000	U							
Indeno(1,2,3-cd)pyrene, Low Level Soil	ug/Kg	33.000	U							
Dibenzo(a,h)anthracene, Low Level Soil	ug/Kg	33.000	U							
Benzo(ghi)perylene, Low Level Soil	ug/Kg	33.000	U							
Acetophenone, Low Level Soil	ug/Kg	167.000	U							
1,2,4,5-Tetrachlorobenzene, Low Level	ug/Kg	167.000	U							
Caprolactam, Low Level Soil	ug/Kg	330.000	U							
Benzaldehyde, Low Level Soil	ug/Kg	330.000	U							
1,1'-Biphenyl, Low Level Soil	ug/Kg	33.000	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 — Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN: James Slowikowski

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B — Equipment Code....: ICP5 — Analyst...: tds
Method Description.: Metals Analysis (ICAP Trace) — Batch.....: 181010

LCS	Laboratory Control Sample	M06ESPK001	180871-002		05/18/2006 0025

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	189.88		200.00	5.05 U	95	%	80-120	
Antimony, Solid	mg/Kg	44.96		50.00	0.43 U	90	%	80-120	
Arsenic, Solid	mg/Kg	9.13		10.00	0.37 U	91	%	80-120	
Barium, Solid	mg/Kg	187.46		200.00	0.07 U	94	%	80-120	
Beryllium, Solid	mg/Kg	4.71		5.00	0.02 U	94	%	80-120	
Cadmium, Solid	mg/Kg	4.62		5.00	0.06 U	92	%	80-120	
Calcium, Solid	mg/Kg	964.12		1000.00	4.46 B	96	%	80-120	
Chromium, Solid	mg/Kg	19.60		20.00	0.18 B	98	%	80-120	
Cobalt, Solid	mg/Kg	47.55		50.00	0.12 U	95	%	80-120	
Copper, Solid	mg/Kg	24.46		25.00	0.22 U	98	%	80-120	
Iron, Solid	mg/Kg	96.91		100.00	2.20 U	97	%	80-120	
Lead, Solid	mg/Kg	9.83		10.00	0.25 U	98	%	80-120	
Magnesium, Solid	mg/Kg	932.92		1000.00	3.78 B	93	%	80-120	
Manganese, Solid	mg/Kg	49.92		50.00	0.09 B	100	%	80-120	
Molybdenum, Solid	mg/Kg	95.64		100.00	0.46 U	96	%	80-120	
Nickel, Solid	mg/Kg	47.42		50.00	0.48 U	95	%	80-120	
Potassium, Solid	mg/Kg	808.67		1000.00	21.64 B	81	%	80-120	
Selenium, Solid	mg/Kg	9.06		10.00	0.45 U	91	%	80-120	
Silver, Solid	mg/Kg	4.64		5.00	0.10 U	93	%	80-120	
Sodium, Solid	mg/Kg	910.77		1000.00	78.60 U	91	%	80-120	
Thallium, Solid	mg/Kg	8.96		10.00	0.57 U	90	%	80-120	
Vanadium, Solid	mg/Kg	48.95		50.00	0.19 B	98	%	80-120	
Zinc, Solid	mg/Kg	46.54		50.00	1.37 U	93	%	80-120	

LCS	Laboratory Control Sample	M06ESPK001	180753-002		05/18/2006 0317

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	189.66		200.00	5.05 U	95	%	80-120	
Antimony, Solid	mg/Kg	45.09		50.00	0.43 U	90	%	80-120	
Arsenic, Solid	mg/Kg	9.03		10.00	0.37 U	90	%	80-120	
Barium, Solid	mg/Kg	185.15		200.00	0.07 U	93	%	80-120	
Beryllium, Solid	mg/Kg	4.68		5.00	0.02 U	94	%	80-120	
Cadmium, Solid	mg/Kg	4.58		5.00	0.06 U	92	%	80-120	
Calcium, Solid	mg/Kg	954.71		1000.00	2.60 B	95	%	80-120	
Chromium, Solid	mg/Kg	19.42		20.00	0.15 B	97	%	80-120	
Cobalt, Solid	mg/Kg	47.16		50.00	0.12 U	94	%	80-120	
Copper, Solid	mg/Kg	24.69		25.00	0.22 U	99	%	80-120	
Iron, Solid	mg/Kg	96.53		100.00	2.28 B	97	%	80-120	
Lead, Solid	mg/Kg	9.96		10.00	0.25 U	100	%	80-120	
Magnesium, Solid	mg/Kg	926.78		1000.00	2.71 B	93	%	80-120	
Manganese, Solid	mg/Kg	49.28		50.00	0.09 B	99	%	80-120	
Molybdenum, Solid	mg/Kg	94.24		100.00	0.46 U	94	%	80-120	
Nickel, Solid	mg/Kg	47.12		50.00	0.48 U	94	%	80-120	
Potassium, Solid	mg/Kg	809.93		1000.00	21.50 B	81	%	80-120	
Selenium, Solid	mg/Kg	9.13		10.00	0.45 U	91	%	80-120	
Silver, Solid	mg/Kg	4.66		5.00	0.10 U	93	%	80-120	
Sodium, Solid	mg/Kg	906.28		1000.00	78.60 U	91	%	80-120	
Thallium, Solid	mg/Kg	8.35		10.00	0.57 U	83	%	80-120	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	MO6ESPK001	180753-002		05/18/2006	0317

Parameter/Test Description	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Vanadium, Solid	mg/Kg	48.38		50.00	0.21 B	97	%	80-120	
Zinc, Solid	mg/Kg	46.05		50.00	1.37 U	92	%	80-120	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498

Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey | PROJECT: LACON AREA | ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: 6010B
Method Description.: Metals Analysis (ICAP Trace)

Equipment Code....: ICP5
Batch.....: 181010

Analyst...: tds

MB	Method Blank	180871	180871-001		05/18/2006	0020

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	5.05	U							
Antimony, Solid	mg/Kg	0.43	U							
Arsenic, Solid	mg/Kg	0.37	U							
Barium, Solid	mg/Kg	0.07	U							
Beryllium, Solid	mg/Kg	0.02	U							
Cadmium, Solid	mg/Kg	0.06	U							
Calcium, Solid	mg/Kg	4.46	B							
Chromium, Solid	mg/Kg	0.18	B							
Cobalt, Solid	mg/Kg	0.12	U							
Copper, Solid	mg/Kg	0.22	U							
Iron, Solid	mg/Kg	2.20	U							
Lead, Solid	mg/Kg	0.25	U							
Magnesium, Solid	mg/Kg	3.78	B							
Manganese, Solid	mg/Kg	0.09	B							
Molybdenum, Solid	mg/Kg	0.46	U							
Nickel, Solid	mg/Kg	0.48	U							
Potassium, Solid	mg/Kg	21.64	B							
Selenium, Solid	mg/Kg	0.45	U							
Silver, Solid	mg/Kg	0.10	U							
Sodium, Solid	mg/Kg	78.60	U							
Thallium, Solid	mg/Kg	0.57	U							
Vanadium, Solid	mg/Kg	0.19	B							
Zinc, Solid	mg/Kg	1.37	U							

MB	Method Blank	180753	180753-001		05/18/2006	0313

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Aluminum, Solid	mg/Kg	5.05	U							
Antimony, Solid	mg/Kg	0.43	U							
Arsenic, Solid	mg/Kg	0.37	U							
Barium, Solid	mg/Kg	0.07	U							
Beryllium, Solid	mg/Kg	0.02	U							
Cadmium, Solid	mg/Kg	0.06	U							
Calcium, Solid	mg/Kg	2.60	B							
Chromium, Solid	mg/Kg	0.15	B							
Cobalt, Solid	mg/Kg	0.12	U							
Copper, Solid	mg/Kg	0.22	U							
Iron, Solid	mg/Kg	2.28	B							
Lead, Solid	mg/Kg	0.25	U							
Magnesium, Solid	mg/Kg	2.71	B							
Manganese, Solid	mg/Kg	0.09	B							
Molybdenum, Solid	mg/Kg	0.46	U							
Nickel, Solid	mg/Kg	0.48	U							
Potassium, Solid	mg/Kg	21.50	B							
Selenium, Solid	mg/Kg	0.45	U							
Silver, Solid	mg/Kg	0.10	U							
Sodium, Solid	mg/Kg	78.60	U							
Thallium, Solid	mg/Kg	0.57	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	180753	180753-001		05/18/2006	0313

Parameter/Test Description	Units	QC Result		QC Result	True Value	Orig. Value	QC Calc.	*	Limits	F
Vanadium, Solid	mg/Kg	0.21	B							
Zinc, Solid	mg/Kg	1.37	U							

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 — Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey — PROJECT: LACON AREA — ATTN: James Slowikowski

Test Method.....: Method
Method Description.: % Solids Determination
Parameter.....: % Solids
Batch.....: 180772
Equipment Code....:
Analyst...: pfk
Test Code.: %SOLID

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	180772-001		%	0.1000 U								05/16/2006	0920
MD	246498-2		%	67.10000			66.00000	1.7		R	5.0	05/16/2006	0944

Test Method.....: 4500NH3B+C
Method Description.: Nitrogen, Ammonia (Dist./Nessler.)
Parameter.....: Ammonia(NH3+NH4),as N
Batch.....: 181667
Equipment Code....: SPEC4
Analyst...: mtb
Test Code.: NH3

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181667-004		mg/L	0.13000 U								05/25/2006	1601
LCS	181667-005	I06ESTTK2	mg/L	2.23400		2.50000	0.13000 U	89		%	80-120	05/25/2006	1601

Test Method.....: HACH 8000
Method Description.: Chemical Oxygen Demand (HACH)
Parameter.....: Chemical Oxygen Demand (COD-High)
Batch.....: 181745
Equipment Code....:
Analyst...: kd
Test Code.: CODH

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181745-001		mg/L	36.00000 U								05/26/2006	1200
LCS	181745-002	I06ESTCD2	mg/L	462.88000		500.00000		93		%	80-120	05/26/2006	1203

Test Method.....: 9014/9010B
Method Description.: Cyanide (Colorimetric)
Parameter.....: Cyanide, Total
Batch.....: 181072
Equipment Code....: SPEC4
Analyst...: mtb
Test Code.: CN

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
LCS	181072-005	I06BSTCN2	mg/L	0.10810		0.10000	0.00180 U	108		%	85-115	05/18/2006	1146
MS	246498-1	I06BSTCN2	mg/Kg	2.75		2.16	0.10 U	127	N	%	75-125	05/18/2006	1146
MSD	246498-1	I06BSTCN2	mg/Kg	3.31	2.75	3.05	0.14 U	109		%	75-125	05/18/2006	1146
								15.3		R	20		
MB	181072-004		mg/L	0.00180 U								05/18/2006	1146

Test Method.....: Lloyd Kahn
Method Description.: Total Organic Carbon (Soils)
Parameter.....: Organic Carbon, Tot. (TOC)
Batch.....: 180912
Equipment Code....: TOC4
Analyst...: cls
Test Code.: TOC

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	180912-003		mg/Kg	29.00 U								05/17/2006	0827

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY CONTROL RESULTS

Job Number.: 246498 Report Date.: 05/30/2006

CUSTOMER: Illinois State Water Survey PROJECT: LACON AREA ATTN: James Slowikowski

Test Method.....: Lloyd Kahn Batch.....: 180912 Analyst...: cls
Method Description.: Total Organic Carbon (Soils) Equipment Code....: TOC4 Test Code.: TOCAV2
Parameter.....: TOC Average Duplicates

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
LCS	180912-004	I00FSTLK3	mg/Kg	3863.53		4780.00		81		%	53-140	05/17/2006	0845

Test Method.....: 9045C Batch.....: 181059 Analyst...: pmf
Method Description.: pH (Soil) Equipment Code....: Test Code.: PH
Parameter.....: pH

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
PHC	181059-001	I06CPH10B	pH Units	10.07000		10.06000		0.01000		A	0.20000	05/17/2006	1330
LCSP	181059-002	I06CPH7B	pH Units	7.00000		7.01000		0.01000		A	0.20000	05/17/2006	1336
LCDP	181059-003	I06CPH7B	pH Units	6.99000		7.01000		0.02000		A	0.20000	05/17/2006	1341
PHC	181059-014	I06CPH4B	pH Units	4.07000		4.01000		0.06000		A	0.20000	05/17/2006	1442
PHC	181059-001	I06CPH10B	pH Units	9.97000		10.06000		0.09000		A	0.20000	05/17/2006	1543
PHC	181059-014	I06CPH4B	pH Units	4.04000		4.01000		0.03000		A	0.20000	05/17/2006	1600

Test Method.....: 4500PE Batch.....: 181344 Analyst...: pmf
Method Description.: Phosphorous, All Forms Equipment Code....: SPEC4 Test Code.: PTOT
Parameter.....: Phosphorous, Total as P

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181344-004		mg/L	0.01120 U								05/23/2006	0826
LCS	181344-005	I05JSTPS2	mg/L	0.48700		0.50000	0.01120 U	97		%	80-120	05/23/2006	0826

Test Method.....: 351.3 Batch.....: 181188 Analyst...: mtb
Method Description.: Nitrogen, Total Kjeldahl Equipment Code....: SPEC4 Test Code.: TKN
Parameter.....: Nitrogen, Total Kjeldahl as N (TKN)

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181188-004		mg/L	0.10000 U								05/19/2006	1356
LCS	181188-005	I06ASTTK2A	mg/L	2.57300		2.50000	0.10000 U	103		%	80-120	05/19/2006	1357

Test Method.....: 7471A Batch.....: 181292 Analyst...: gok
Method Description.: Mercury (CVAA) Solids Equipment Code....: HG3 Test Code.: HG
Parameter.....: Mercury

QC	Lab ID	Reagent	Units	QC Result	QC Result	True Value	Orig. Value	QC Calc.	F	*	Limits	Date	Time
MB	181177-007		mg/Kg	0.01 U								05/19/2006	1519
LCS	181177-008	M04LSTK010	mg/Kg	0.16		0.17	0.01 U	98		%	80-120	05/19/2006	1521

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 05/30/2006

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Soil, sediment and sludge sample results are reported on a "dry weight" basis except when analyzed for landfill disposal or incineration parameters. All other solid matrix samples are reported on an "as received" basis unless noted differently.
3) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
4) The test results for the noted analytical method(s) meet the requirements of NELAC. Lab Cert. ID# 100201
5) According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.

Glossary of flags, qualifiers and abbreviations (any number of which may appear in the report)

Inorganic Qualifiers (Q-Column)

U	Analyte was not detected at or above the stated limit.
<	Not detected at or above the reporting limit.
J	Result is less than the RL, but greater than or equal to the method detection limit.
B	Result is less than the CRDL/RL, but greater than or equal to the IDL/MDL.
S	Result was determined by the Method of Standard Additions.
F	AFCEE: Result is less than the RL, but greater than or equal to the method detection limit.

Inorganic Flags (Flag Column)

^	ICV,CCV,ICB,CCB,ISA,ISB,CRI,CRA,MRL: Instrument related QC exceed the upper or lower control limits.
*	LCS, LCD, MD: Batch QC exceeds the upper or lower control limits.
+	MSA correlation coefficient is less than 0.995.
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
E	SD: Serial dilution exceeds the control limits.
H	MB, EB1, EB2, EB3: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
N	MS, MSD: Spike recovery exceeds the upper or lower control limits.
W	AS(GFAA) Post-digestion spike was outside 85-115% control limits.

Organic Qualifiers (Q - Column)

U	Analyte was not detected at or above the stated limit.
ND	Compound not detected.
J	Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
Q	Result was qualitatively confirmed, but not quantified.
C	Pesticide identification was confirmed by GC/MS.
Y	The chromatographic response resembles a typical fuel pattern.
Z	The chromatographic response does not resemble a typical fuel pattern.
E	Result exceeded calibration range, secondary dilution required.
F	AFCEE:Result is an estimated value below the reporting limit or a tentatively identified compound (TIC)

Organic Flags (Flags Column)

B	MB: Batch QC is greater than reporting limit.
*	LCS, LCD, ELC, ELD, CV, MS, MSD, Surrogate: Batch QC exceeds the upper or lower control limits.
^	EB1, EB2, EB3, MLE: Batch QC is greater than reporting Limit
A	Concentration exceeds the instrument calibration range
a	Concentration is below the method Reporting Limit (RL)
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
H	Alternate peak selection upon analytical review
I	Indicates the presence of an interfence, recovery is not calculated.
M	Manually integrated compound.
P	The lower of the two values is reported when the % difference between the results of two GC columns is

greater than 25%.

Abbreviations

AS	Post Digestion Spike (GFAA Samples - See Note 1 below)
Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column CCB Continuing Calibration Blank
CCV	Continuing Calibration Verification
CF	Confirmation analysis of original
C1	Confirmation analysis of A1 or D1
C2	Confirmation analysis of A2 or D2
C3	Confirmation analysis of A3 or D3
CRA	Low Level Standard Check - GFAA; Mercury
CRI	Low Level Standard Check - ICP
CV	Calilbration Verification Standard
Dil Fac	Dilution Factor - Secondary dilution analysis
D1	Dilution 1
D2	Dilution 2
D3	Dilution 3
DLFac	Detection Limit Factor
DSH	Distilled Standard - High Level
DSL	Distilled Standard - Low Level
DSM	Distilled Standard - Medium Level
EB1	Extraction Blank 1
EB2	Extraction Blank 2
EB3	DI Blank
ELC	Method Extracted LCS
ELD	Method Extracted LCD
ICAL	Initial calibration
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A - ICAP
ISB	Interference Check Sample B - ICAP
Job No.	The first six digits of the sample ID which refers to a specific client, project and sample group
	Lab ID An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) Preparation Blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PREPF	Preparation factor used by the Laboratory's Information Management System (LIMS)
PDS	Post Digestion Spike (ICAP)
RA	Re-analysis of original
A1	Re-analysis of D1
A2	Re-analysis of D2
A3	Re-analysis of D3
RD	Re-extraction of dilution
RE	Re-extraction of original
RC	Re-extraction Confirmation
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RT	Retention Time

RTW	Retention Time Window Sample ID A 9 digit number unique for each sample, the first six digits are referred as the job number
SCB	Seeded Control Blank
SD	Serial Dilution (Calculated when sample concentration exceeds 50 times the MDL)
UCB	Unseeded Control Blank
SSV	Second Source Verification Standard
SLCS	Solid Laboratory Control Standard(LCS)
PHC	pH Calibration Check LCSP pH Laboratory Control Sample
LCDP	pH Laboratory Control Sample Duplicate
MDPH	pH Sample Duplicate
MDFP	Flashpoint Sample Duplicate
LCFP	Flashpoint LCS
G1	Gelex Check Standard Range 0-1
G2	Gelex Check Standard Range 1-10
G3	Gelex Check Standard Range 10-100
G4	Gelex Check Standard Range 100-1000

Note 1: The Post Spike Designation on Batch QC for GFAA is designated with an "S" added to the current abbreviation used. EX. LCS S=LCS Post Spike (GFAA); MSS=MS Post Spike (GFAA)
Note 2: The MD calculates an absolute difference (A) when the sample concentration is less than 5 times the reporting limit. The control limit is represented as +/- the RL.

SEVERN TRENT **STL**

STL Chicago
2417 Bond Street
University Park, IL 60466
Phone: 708-534-5200
Fax: 708-534-5211

Report To:
Contact: James A Slowikowski
Company: Illinois State Water Survey
Address: 2204 Griffith Dr
Champaign IL 61820
Phone: 217 244 3820
Fax: " 333 2304
E-Mail: slow@uiuc.edu

Bill To:
Contact:
Company:
Address: ← SAME
Phone:
Fax:
PO#: Quote:

Shaded Areas For Internal Use Only ____ of ____

Lab Lot# 246498

Package Sealed	Samples Sealed
(Yes) No	Yes (No)
Received on Ice	**Samples Intact**
(Yes) No	(Yes) No

Temperature °C of Cooler 4.4

Sampler Name: J.A. Slowikowski
Signature: James A Slowikowski
Project Name: LACON AREA
Project Number: 20006441
Project Location: LACON IL. River
Lab PM:
Date Required
Hard Copy: ___/___/___
Fax: ___/___/___

Within Hold Time	Preserv. Indicated
(Yes) No	(Yes) No NA
pH Check OK	**Res Cl_2 Check OK**
Yes No (NA)	Yes No (NA)

Sample Labels and COC Agree
(Yes) No COC not present

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	Metals	SVOC	PCB	PesT (6)	Hg, CN	TKN, pH	Ammonia	Total P	COD, TOC	Density/SG	Additional Analyses / Remarks
																	JARS
1		275	5.9.06	07:05	SE		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
2		276	"	07:50	"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
3		277	"	08:40	"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
4		278	"	09:15	"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
5		279	"	09:45	"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2
6		280	"	10:20	"		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2

RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME
JAS	ISWS	5/12/06	1300		STL	5/13/06	1100
RELINQUISHED BY	COMPANY	DATE	TIME	RECEIVED BY	COMPANY	DATE	TIME

Matrix Key
WW = Wastewater
W = Water
S = Soil
SL = Sludge
MS = Miscellaneous
OL = Oil
A = Air
SE = Sediment
SO = Solid
DS = Drum Solid
DL = Drum Liquid
L = Leachate
WI = Wipe
O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
_____

Preservative Key
1. HCl, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS

Date Received 5/13/06
Courier: UPS **Hand Delivered** ☐
Bill of Lading

Appendix D. Particle Size Results

SEDIMENT LABORATORY SAMPLE DELIVERY INFORMATION

PROJECT NAME: COE NESP IL RIVER

ANALYSIS TYPE: PARTICLE SIZE DISTRIBUTION. (See ISWS-CWS Sediment Laboratory 2006 Price List).

Item(5) SAND (Particle-size distribution by full class(1) and (2) >0.063 mm,plus sand break).

Item(6) FINES

a. ORGANIC REMOVAL BY BLEACH (Sodium hypochlorite).

b. SAND BREAK (sand/fines split).

c. PIPETTE ANALYSIS (particle -size distribution by full class (3) < 0.063mm)

LAB JOB NUMBER: PS JOB 63

DATE TO LAB: 7/11/2006

COLLECT DATE: 5/8/06 - 5/9/06

COLLECTED BY: JIM SLOWIKOWSKI

TOTAL SAMPLES: 16 BAGS (16 F/S, 16 ORGANIC REMOVAL, 16 PIPETTE ANALYSIS, 4 SONIC AUTO SIEVE).

START DATE: 8/8/2006

COMPLETION DATE: 9/14/2006

RELINQUISHED BY: JIM SLOWIKOWSKI

ANALYSIS BY: YI HAN

REMARKS:

ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample#1
ID: SWS 265

PROJECT: COE NESP IL RIVER
START DATE: 8/8/2006
STREAM: IL River
COMPLETED DATE: 9/1/2006
DELIVERY DATE: 7/11/2006
SAMPLER: Jim Slowikowski
ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1									
25		Coarse Sand	0.5	0.71									
35			1	0.5									
45		Med. Sand	1.5	0.355									
60			2	0.25									
80		Fine Sand	2.5	0.18									
120			3	0.12									
170		Very Fine Sand	3.5	0.09									
230			4	0.063									
PAN				<0.063									

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
1	Coarse Silt	4.01	0.062	28"	21	1.9490	1.8596	0.0894	0.0100	0.0794	3.8339	97.90
2		5	0.031	1'52"	21	1.9427	1.8565	0.0862	0.0100	0.0762	3.6794	93.96
3	Med. Silt	6	0.0156	7'29"	21	1.8784	1.8055	0.0729	0.0100	0.0629	3.0372	77.56
4	Fine Silt	7	0.0078	29'26"	21	1.8612	1.8022	0.0590	0.0100	0.0490	2.3660	60.42
5	V. Fine Silt	8	0.0039	59'50"	21	1.8747	1.8251	0.0496	0.0100	0.0396	1.9121	48.83
6	Clay	9	0.002	4hr	21	1.8902	1.8173	0.0429	0.0100	0.0329	1.5886	40.57

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):
Test split w (g):t:
Fine < 0.063 mm (g):
Factor:
Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL): 1000
Fine Sed Wt (g): 3.8787
Fine %: 99.1%

Pipette Volume (mL): 20.71
Sand Sed Wt (g): 0.0373
Sand %: 0.9%

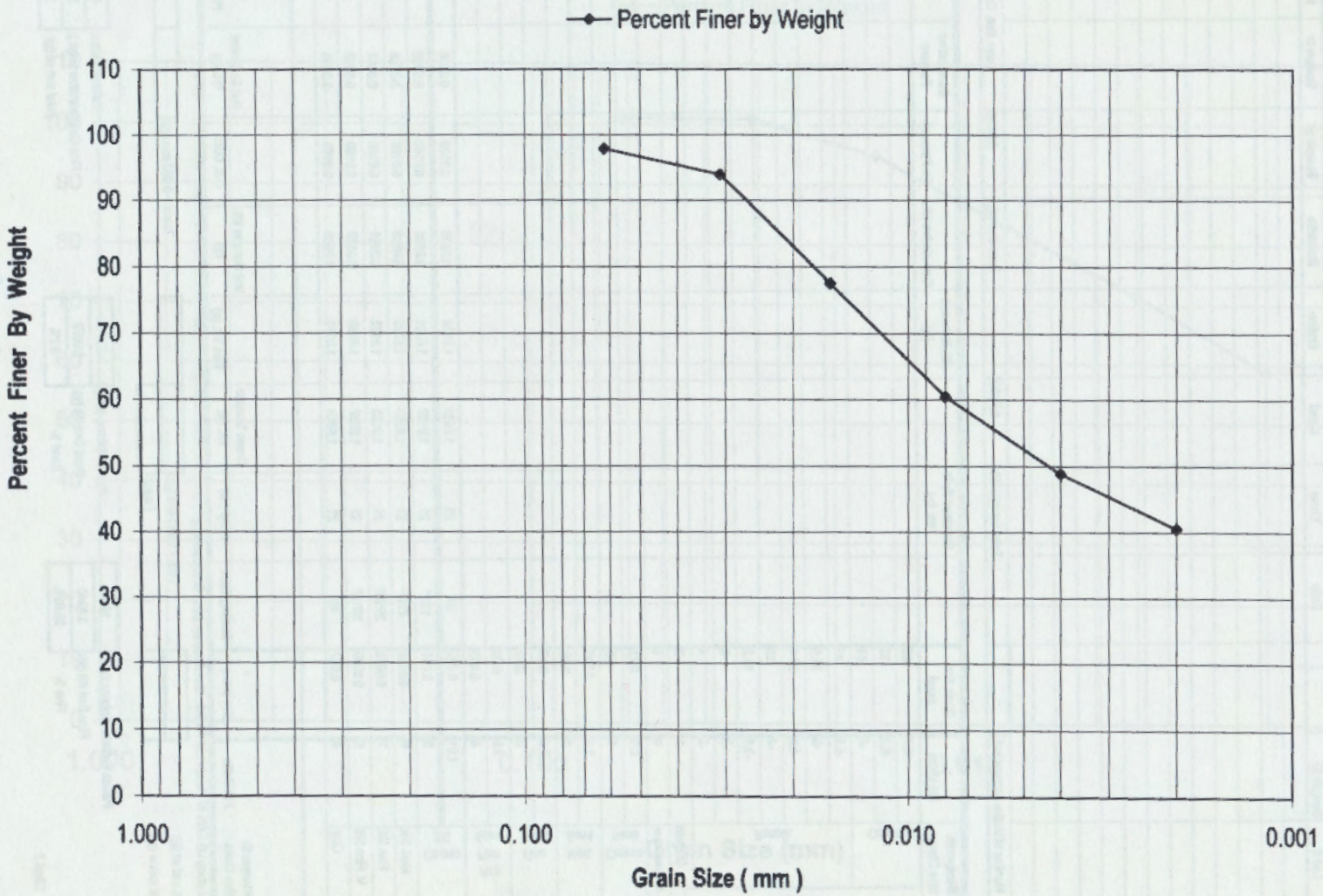
Volume Factor: 46.2658
Fine Concentration (mg/L): 3878.70
Total sed wt (g): 3.916

NOTES: Chart 1

Particle Size Distribution

Chart 1

Project: COE NESP, IL River Sample ID:SWS 265



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample #2

ID: SWS 266

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/1/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel, Cobble	-6.5	90									
*	Gravel, Cobble	-6.2	75									
*	Gravel, Cobble	-6	63									
*	Gravel, Pebble	-5.5	45									
*	Gravel, Pebble	-5	31.5									
*	Gravel, Pebble	-4.5	22.4									
*	Gravel, Pebble	-4	16									
*	Gravel, Pebble	-3.5	11.2									
5/6"	Gravel, Pebble	-3	8									
5	Gravel, Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									
1	Coarse Silt	4.01	0.062	28"	21	1.9530	1.8624	0.0906	0.0100	0.0906	3.8918	101

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Coarse Silt	5	0.031	1'52"	21	1.9189	1.8281	0.0908	0.0100	0.0908	3.9015	101
3	Med. Silt	6	0.0156	7'29"	21	1.9080	1.8225	0.0855	0.0100	0.0755	3.8456	94.91
4	Fine Silt	7	0.0078	29'26"	21	1.9183	1.8422	0.0761	0.0100	0.0661	3.1917	83.09
5	V. Fine Silt	8	0.0039	59'50"	21	1.8937	1.8268	0.0669	0.0100	0.0569	2.7475	71.53
6	Clay	9	0.002	4hr	21	1.8998	1.8402	0.0596	0.0100	0.0496	2.2501	58.58

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

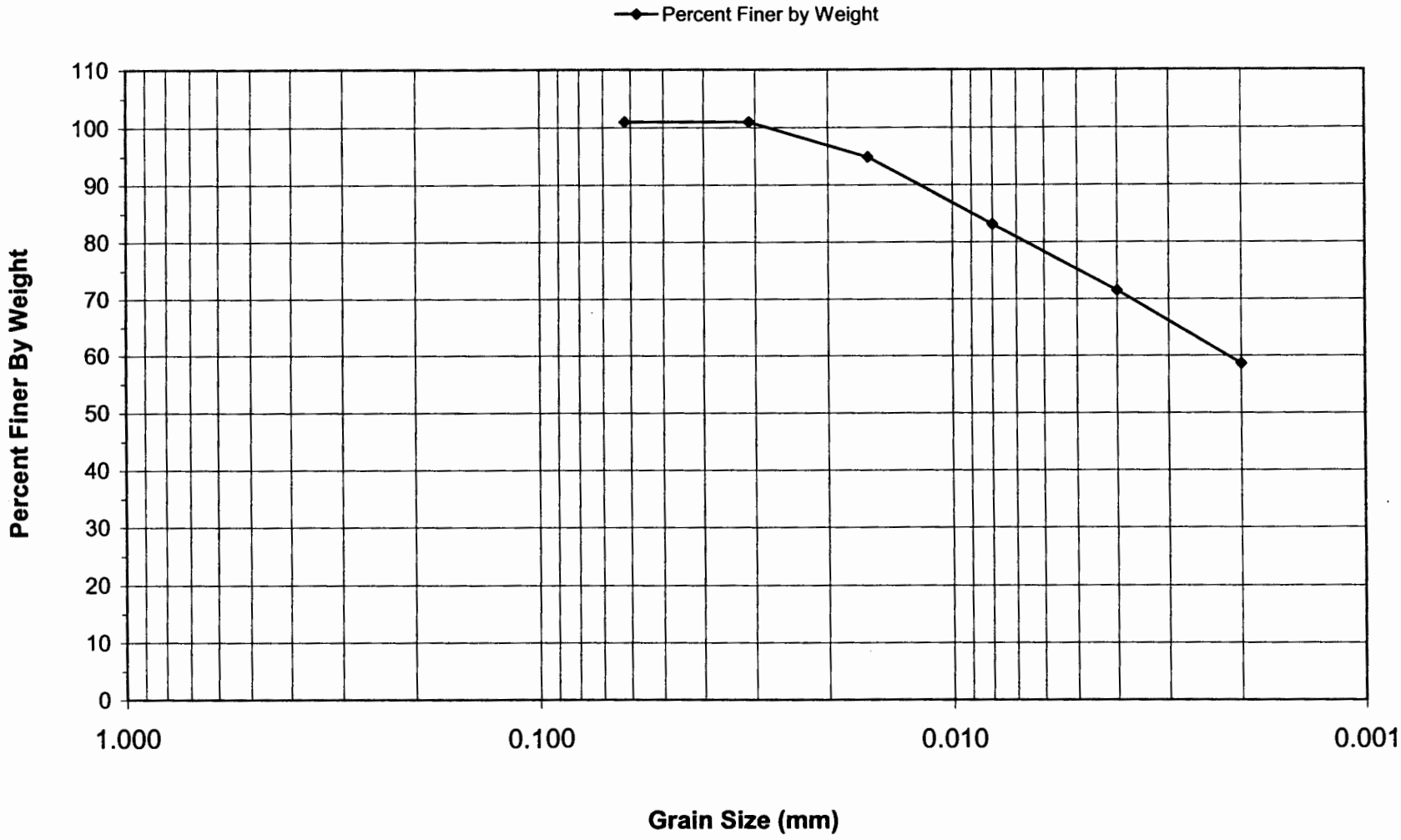
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):	
Test split w (g):		Factor:				

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	46.2656
Fine Sed Wt (g):	3.8340	Sand Sed Wt (g):	0.0072	Fine Concentration (mg/L):	3834.00
Fine %	99.98%	Sand %	0.2%	Total sed wt (g):	3.8412

NOTES: Chart 2

Particle Size Distribution **Chart 2**

Project: COE NESP,IL River. Sample ID: SWS 266



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 3
ID: SWS 267

PROJECT: COE NESP IL RIVER | *STREAM:* IL River | *DELIVERY DATE:* 7/11/2006 | *SAMPLER:* Jim Slowikowski
START DATE: 6/8/2006 | *COMPLETED DATE:* 9/1/2006 | *ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
		Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	110.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel – Cobble	-6.5	90									
*	Gravel – Cobble	-6.2	75									
*	Gravel – Cobble	-6	63									
*	Gravel – Pebble	-5.5	45									
*	Gravel – Pebble	-5	31.5									
*	Gravel – Pebble	-4.5	22.4									
*	Gravel – Pebble	-4	16									
*	Gravel – Pebble	-3.5	11.2									
5/8"	Gravel – Pebble	-3	8									
5	Gravel – Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71				0.0946	0.0946	0.0009	0.09%		99.9
35	Coarse Sand	1	0.5				0.0584	0.1510	0.0005	0.14%		99.9
45	Med. Sand	1.5	0.355				0.0000	0.1510	0.0000	0.14%		99.9
60	Med. Sand	2	0.25				0.5035	0.6545	0.0046	0.60%		99.4
80	Fine Sand	2.5	0.18				5.6210	6.2755	0.0511	5.71%		94.3
120	Fine Sand	3	0.12				5.7857	12.0612	0.0526	10.98%		89.0
170	Very Fine Sand	3.5	0.09				2.3706	14.4318	0.0216	13.12%		86.9
230	Very Fine Sand	4	0.063				1.4429	15.8747	0.0131	14.43%		85.6
1	Coarse Silt	4.01	0.062	28"	21	1.8582	1.7770	0.0792	0.0100	0.0892	3.3414	85.58

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Med. Silt	5	0.031	1'52"	21	1.9622	1.8860	0.0762	0.0100	0.0862	3.1955	81.96
3	Med. Silt	6	0.0156	7'29"	21	1.9040	1.8349	0.0691	0.0100	0.0791	2.8537	73.17
4	Fine Silt	7	0.0078	29'25"	21	1.8405	1.7791	0.0614	0.0100	0.0514	2.4819	63.64
5	V. Fine Silt	8	0.0039	59'50"	21	1.9669	1.9128	0.0541	0.0100	0.0441	2.1294	54.60
6	Clay	9	0.002	4hr	21	1.9018	1.8544	0.0474	0.0100	0.0374	1.8059	46.30

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

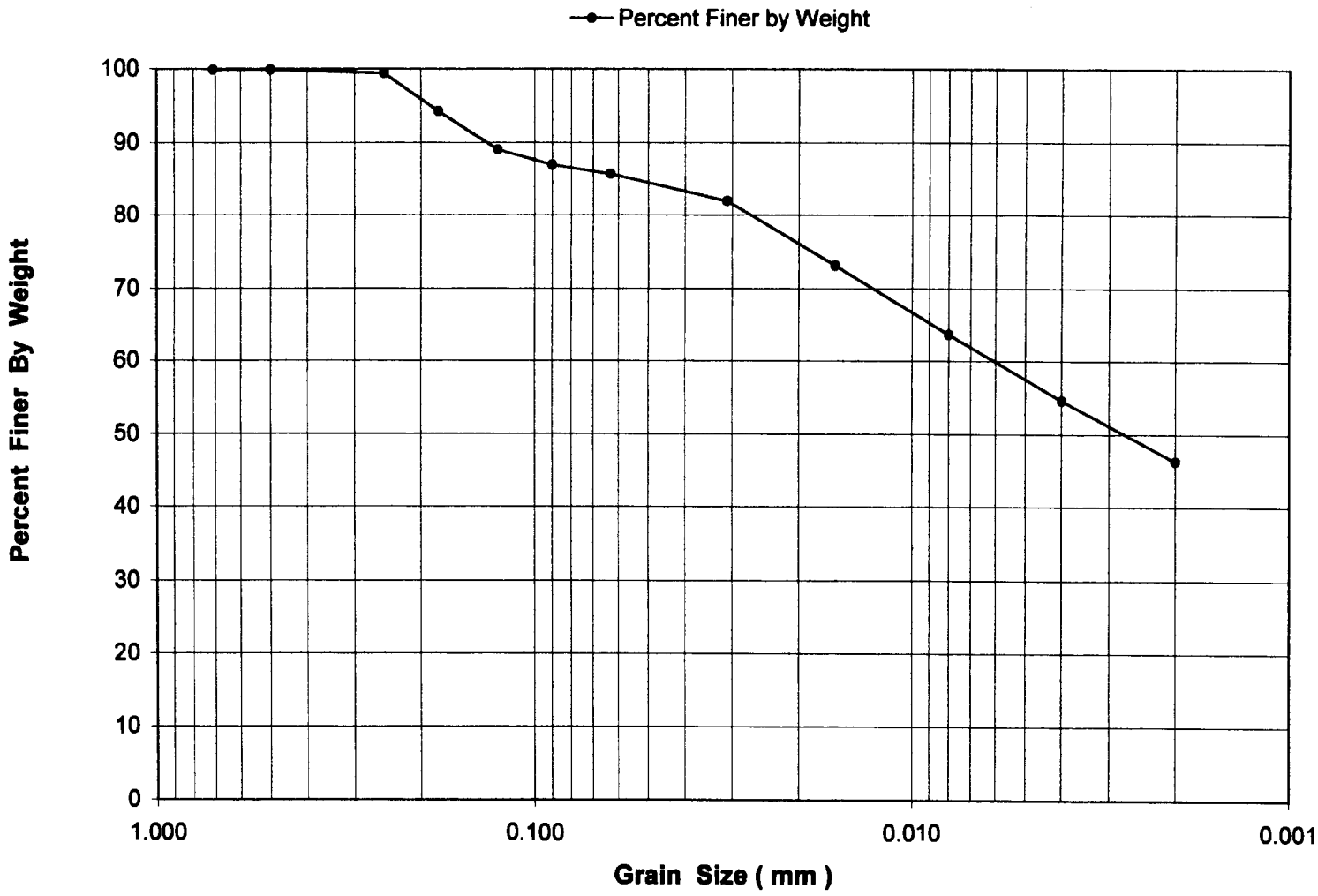
Total sed wt (g):	110	Fine < 0.063 mm (g):	94	85%	Sand > 0.062 mm (g):	16	15%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.3041	Sand Sed Wt (g):	0.5959	Fine Concentration (mg/L):	3304.10
Fine %	85.0%	Sand %	15.0%	Total sed wt (g):	3.9

NOTES: Chart 3

Particle Size Distribution **Chart 3**

Project: COE NESP,IL River Sample ID: SWS 267



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 4

ID: SWS 268

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/1/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
		Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28"	21	1.8763	1.7880	0.0903	0.0100	0.0803	3.8773	101

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Med. Silt	5	0.031	1'52"	21	1.9132	1.8229	0.0903	0.0100	0.0803	3.8773	101
3	Fine Silt	6	0.0156	7'29"	21	1.9345	1.8471	0.0874	0.0100	0.0774	3.7373	97.89
4	V. Fine Silt	7	0.0078	29'28"	21	1.9168	1.8352	0.0816	0.0100	0.0716	3.4573	90.55
5	Clay	8	0.0039	59'50"	21	1.9072	1.8362	0.0710	0.0100	0.0610	2.9454	77.15
6		9	0.002	4hr	21	1.8711	1.8119	0.0592	0.0100	0.0492	2.3757	62.22

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):

Test split w (g)t:

Fine < 0.063 mm (g):

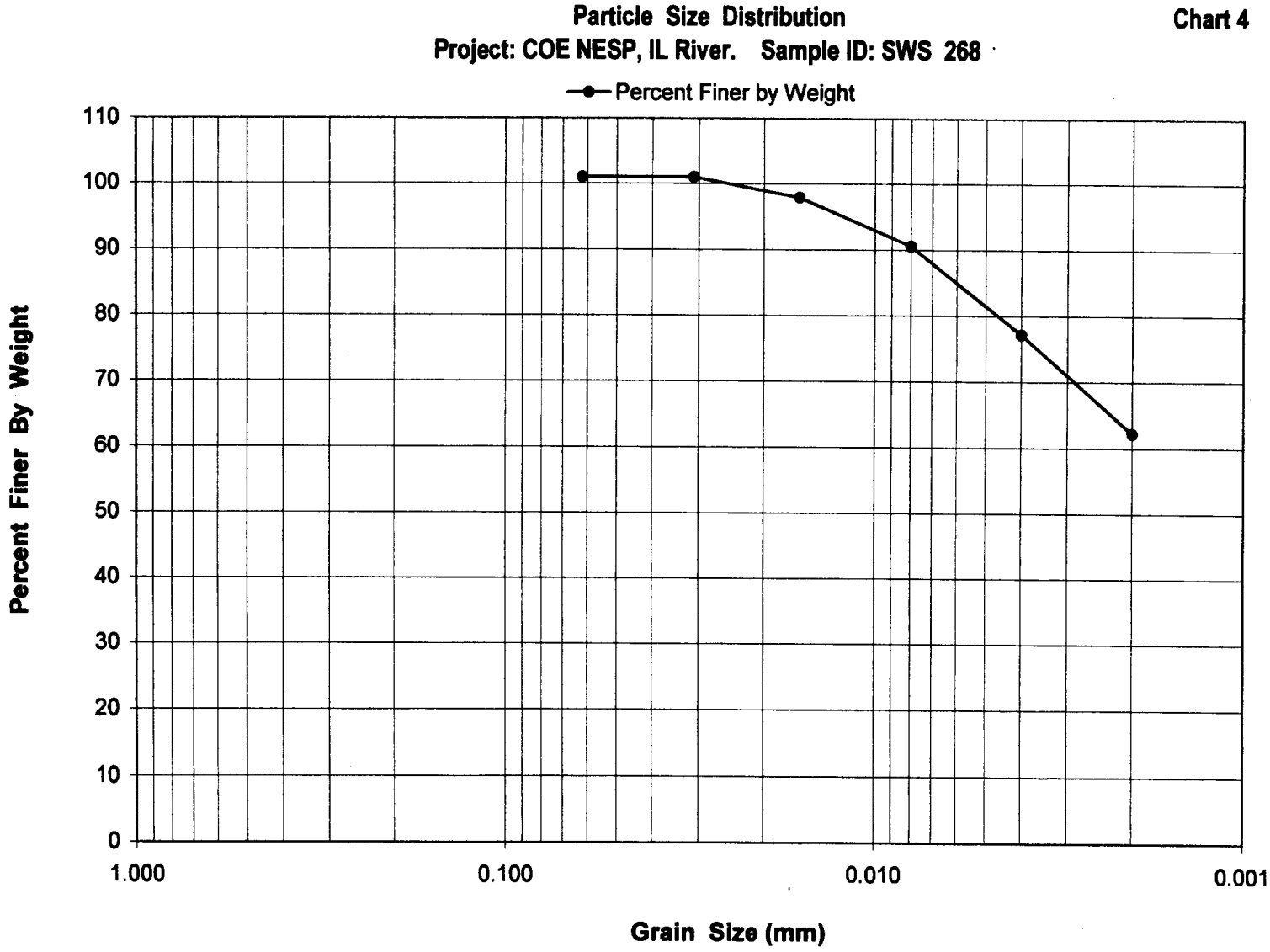
Factor:

Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2958
Fine Sed Wt (g):	3.7993	Sand Sed Wt (g):	0.0157	Fine Concentration (mg/L):	3799.30
Fine %	99.5%	Sand %	0.5%	Total sed wt (g):	3.818

NOTES: Chart 4

Chart 4


Particle Size Distribution
Project: COE NESP, IL River. Sample ID: SWS 268
Percent Finer by Weight
Percent Finer By Weight
110
100
90
80
70
60
50
40
30
20
10
0
1.000
0.100
0.010
0.001
Grain Size (mm)

ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 5

ID: SWS 269

PROJECT:	COE NESP IL RIVER	STREAM:	IL River	DELIVERY DATE: 7/11/2006	SAMPLER: Jim Slowikowski
START DATE:	8/8/2006	COMPLETED DATE:	9/1/2006		ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28"	21	1.9023	1.8207	0.0816	0.0100	0.0716	3.4573	89.20
2			5	0.031	1'52"	21	1.9184	1.8427	0.0757	0.0100	0.0657	3.1724	81.85
3	Med. Silt		6	0.0156	7'29"	21	1.8760	1.8107	0.0653	0.0100	0.0553	2.6702	68.89
4	Fine Silt		7	0.0078	29'26"	21	1.9487	1.8923	0.0564	0.0100	0.0464	2.2405	57.81
5	V. Fine Silt		8	0.0039	59'50"	21	1.8998	1.8502	0.0496	0.0100	0.0396	1.9121	49.33
6	Clay		9	0.002	4hr	21	1.8431	1.8002	0.0429	0.0100	0.0329	1.5886	40.99

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

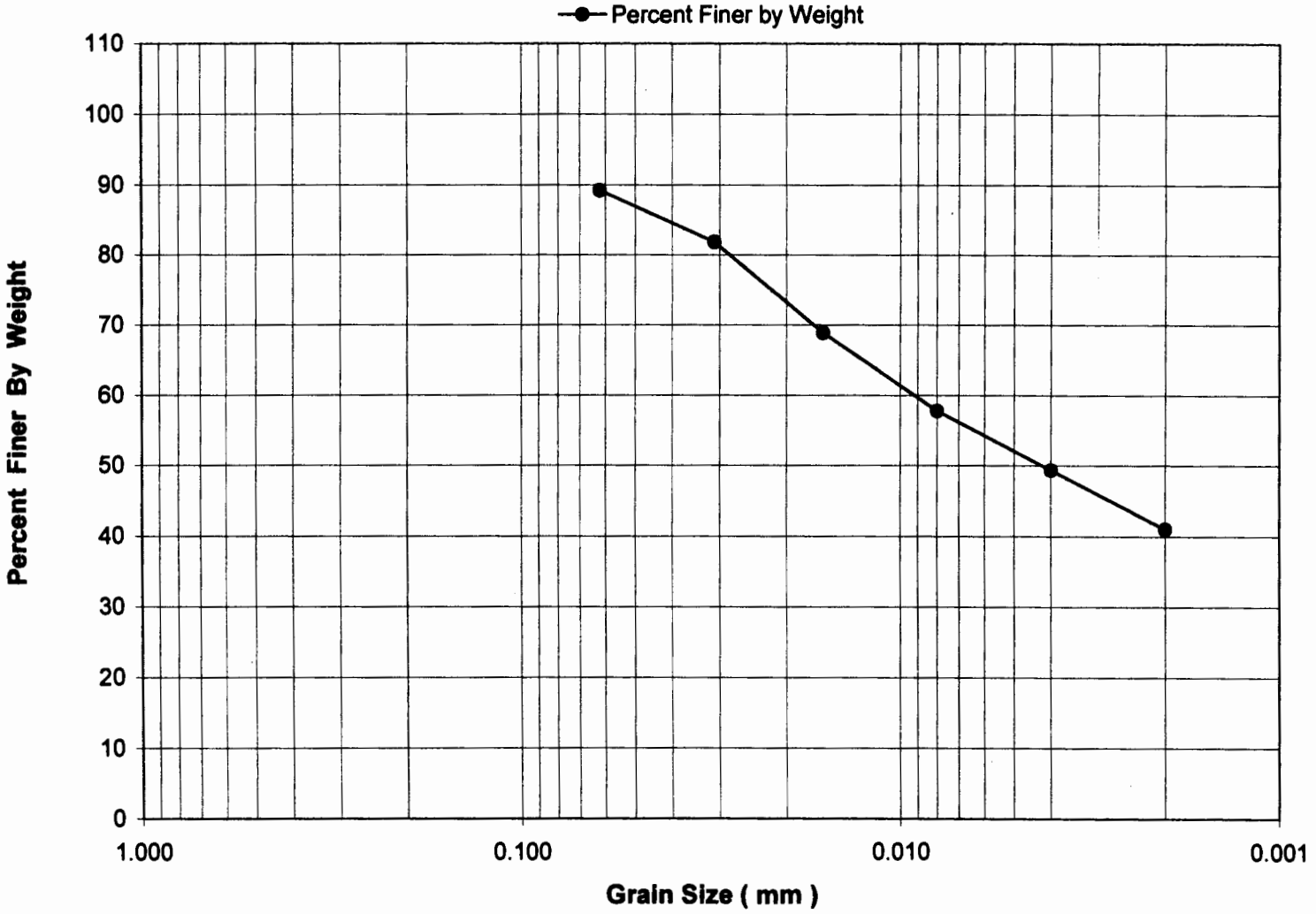
Total sed wt (g):		Fine < 0.063 mm (g):			Sand > 0.062 mm (g):	
Test split w (g)t:		Factor:				

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.5418	Sand Sed Wt (g):	0.3340	Fine Concentration (mg/L):	3541.80
Fine %	91.4%	Sand %	8.6%	Total sed wt (g):	3.8758

NOTES: Chart 5

Particle Size Distribution **Chart 5**

Project: COE NESP, IL River. Sample ID:SWS 269



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 6

ID: SWS 270

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River
START DATE:	8/8/2006	*COMPLETED DATE:*	9/12/2006
DELIVERY DATE:	7/11/2006	*SAMPLER:*	Jim Slowikowski
		ANALYSIS BY:	YI Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	3.8248	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel – Cobble	-6.5	90									
*	Gravel – Cobble	-6.2	75									
*	Gravel – Cobble	-6	63									
*	Gravel – Pebble	-5.5	45									
*	Gravel – Pebble	-5	31.5									
*	Gravel – Pebble	-4.5	22.4									
*	Gravel – Pebble	-4	16									
*	Gravel – Pebble	-3.5	11.2									
5/6"	Gravel – Pebble	-3	8									
5	Gravel – Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									
1	Coarse Silt	4.01	0.062	26"	21	1.8945	1.8089	0.0876	0.0100	0.0776	3.7470	97.97

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Coarse Silt	5	0.031	1'52"	21	1.9452	1.8588	0.0864	0.0100	0.0764	3.6890	96.45
3	Med. Silt	6	0.0156	7'29"	21	1.9083	1.8283	0.0800	0.0100	0.0700	3.3800	88.37
4	Fine Silt	7	0.0078	29'26"	21	1.8735	1.8010	0.0725	0.0100	0.0625	3.0179	78.90
5	V. Fine Silt	8	0.0039	59'50"	21	1.9208	1.8568	0.0640	0.0100	0.0540	2.6074	68.17
6	Clay	9	0.002	4hr	21	1.8437	1.7881	0.0556	0.0100	0.0468	2.2018	57.57

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

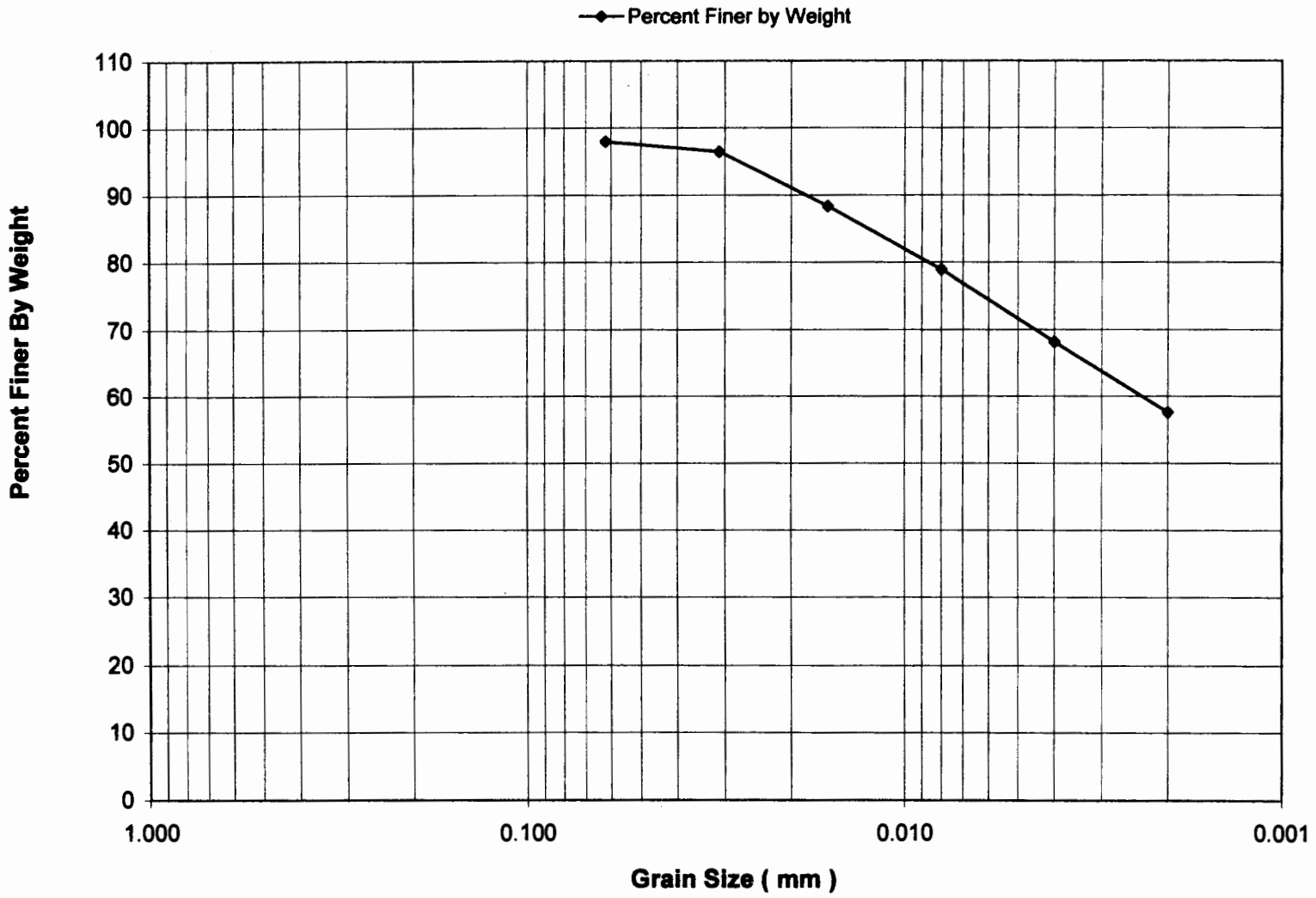
Total sed wt (g):	3.8248	Fine < 0.063 mm (g):		Sand > 0.062 mm (g):	
Test split w (g)t:		Factor:			

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	46.2858
Fine Sed Wt (g):	3.7527	Sand Sed Wt (g):	0.0721	Fine Concentration (mg/L):	3752.70
Fine %	98.1%	Sand %	1.9%	Total sed wt (g):	3.8248

NOTES: Chart 6

Particle Size Distribution **Chart 6**

Project: COE NESP, IL River Sample ID: SWS 270



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 7 | ID: SWS 271

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	7/11/2006
START DATE:	8/8/2006	*COMPLETED DATE:*	9/12/2006	*SAMPLER:*	Jim Slowikowski
				ANALYSIS BY:	Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28'	21	1.9172	1.8268	0.0904	0.0100	0.0804	3.8822	99.54

PS BY PIPETTE METHOD

2	Med. Silt	5	0.031	1'52"	21	1.8816	1.7913	0.0903	0.0100	0.0803	3.8773	99.42
3	Fine Silt	6	0.0156	7'29"	21	1.8889	1.8015	0.0874	0.0100	0.0774	3.7373	95.83
4	V. Fine Silt	7	0.0078	29'26"	21	1.8967	1.8150	0.0817	0.0100	0.0717	3.4621	88.77
5	Clay	8	0.0039	59'50"	21	1.8980	1.8242	0.0718	0.0100	0.0618	2.9841	76.51
6		9	0.002	4hr	21	1.8689	1.8064	0.0625	0.0100	0.0525	2.5350	65.00

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

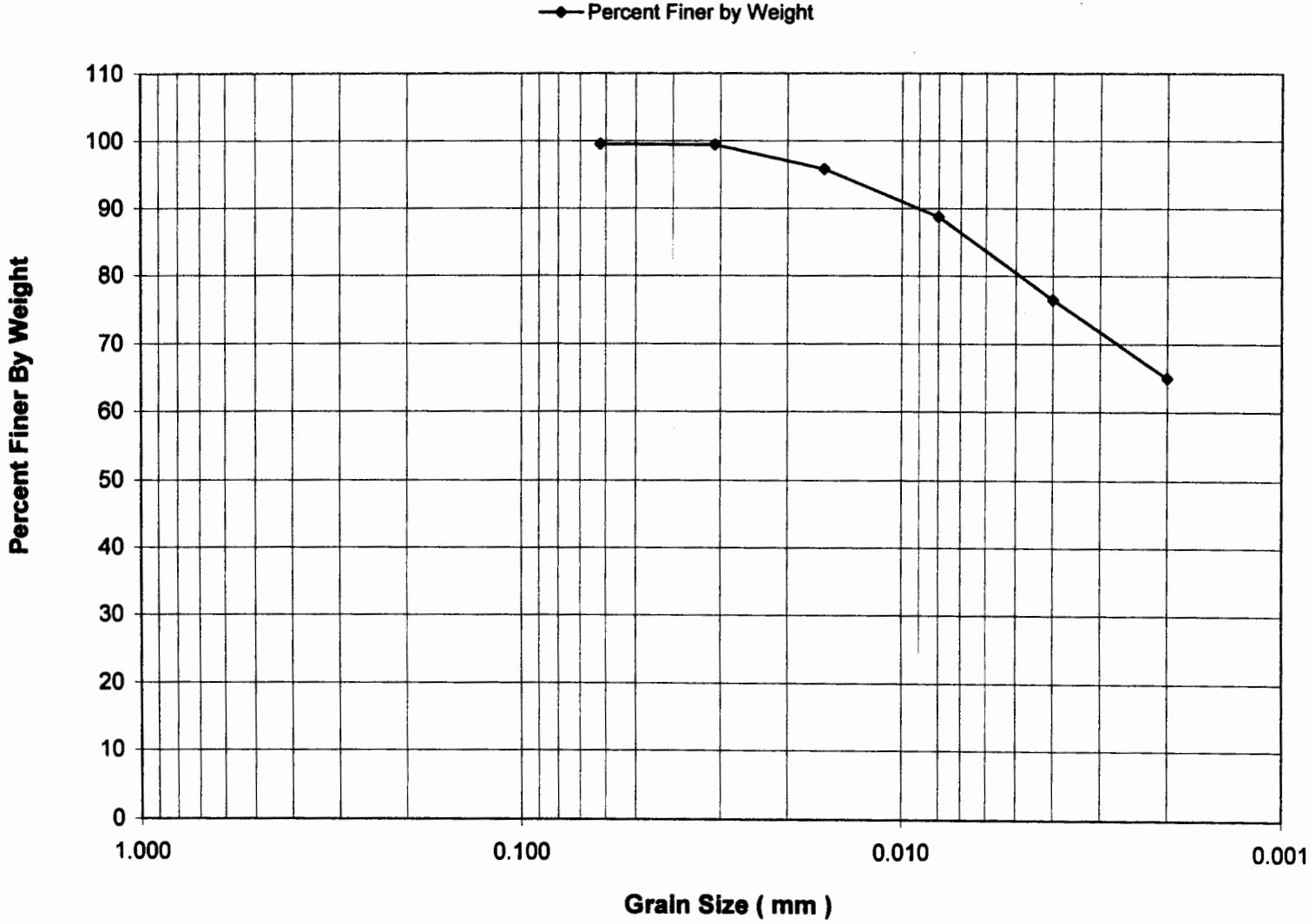
Total sed wt (g):		Fine < 0.063 mm (g):		Sand > 0.062 mm (g):	
Test split w (g)t:		Factor:			

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.8909	Sand Sed Wt (g):	0.0091	Fine Concentration (mg/L):	3890.90
Fine %	99.8%	Sand %	0.2%	Total sed wt (g):	3.9

NOTES: Chart 7

Particle Size Distribution **Chart 7**

Project: COE NESP, IL River Sample ID: SWS 271



ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 8

ID: SWS 272

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	7/11/2006
START DATE:	8/8/2006	*COMPLETED DATE:*	9/12/2006	*SAMPLER:*	Jim Slowikowski
				ANALYSIS BY:	Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel – Cobble	-6.5	90									
*	Gravel – Cobble	-6.2	75									
*	Gravel – Cobble	-6	63									
*	Gravel – Pebble	-5.5	45									
*	Gravel – Pebble	-5	31.5									
*	Gravel – Pebble	-4.5	22.4									
*	Gravel – Pebble	-4	16									
*	Gravel – Pebble	-3.5	11.2									
5/6"	Gravel – Pebble	-3	8									
5	Gravel – Pebble	-2	4									
10	Granule	-1	2									
18	V. Coarse Sand	0	1									
25	Coarse Sand	0.5	0.71									
35	Coarse Sand	1	0.5									
45	Med. Sand	1.5	0.355									
60	Med. Sand	2	0.25									
80	Fine Sand	2.5	0.18									
120	Fine Sand	3	0.12									
170	Very Fine Sand	3.5	0.09									
230	Very Fine Sand	4	0.063									
1	Coarse Silt	4.01	0.062	28"	21	1.9181	1.8305	0.0876	0.0100	0.0776	3.7470	98.62
2	Coarse Silt	5	0.031	1'52"	21	1.8711	1.7854	0.0857	0.0100	0.0757	3.6552	96.20
3	Med. Silt	6	0.0156	7'29"	21	1.8861	1.8079	0.0782	0.0100	0.0682	3.2931	86.67
4	Fine Silt	7	0.0078	29'26"	21	1.8930	1.8230	0.0700	0.0100	0.0600	2.8971	76.25
5	V. Fine Silt	8	0.0039	59'50"	21	1.8500	1.7882	0.0618	0.0100	0.0518	2.5012	65.83
6	Clay	9	0.002	4hr	21	1.8626	1.8090	0.0536	0.0100	0.0436	2.1053	55.41

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):

Test split w (g)t:

Fine < 0.063 mm (g):

Factor:

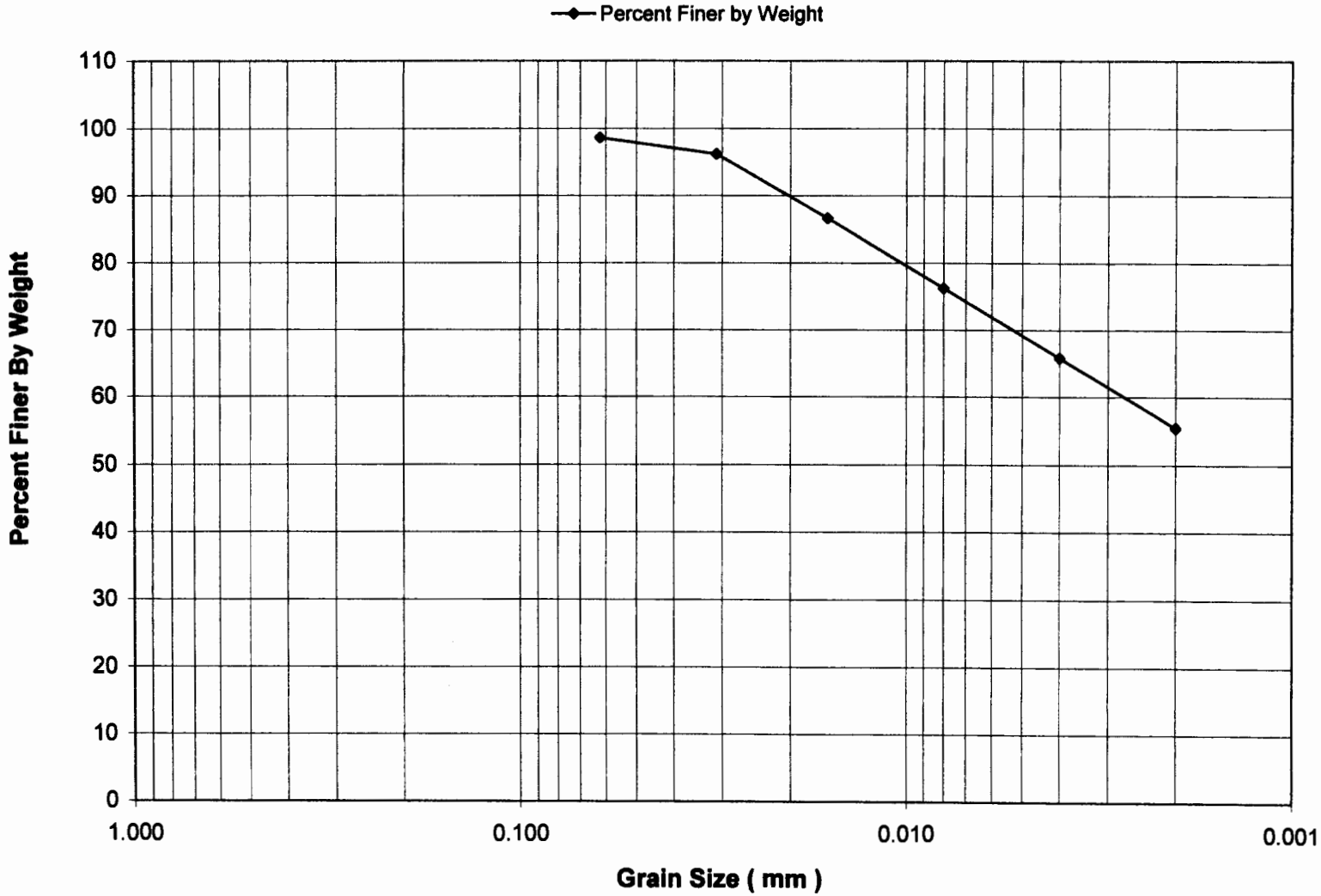
Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2856
Fine Sed Wt (g):	3.7366	Sand Sed Wt (g):	0.0640	Fine Concentration (mg/L):	3735.60
Fine %:	98.3%	Sand %:	1.7%	Total sed wt (g):	3.7996

NOTES: Chart 8

Particle Size Distribution **Chart 8**

Project: COE NESP, IL River Sample ID: SWS 272



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 9

ID: SWS 273

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/12/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	Grain Size (mm)		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									
1	Coarse Silt		4.01	0.062	28"	21	1.9330	1.8447	0.0883	0.0100	0.0783	3.7808	98.33

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Med. Silt	5	0.031	1'52"	21	1.9320	1.8454	0.0866	0.0100	0.0766	3.6667	96.20
3	Fine Silt	6	0.0156	7'29"	21	1.9067	1.8291	0.0776	0.0100	0.0676	3.2641	84.90
4	V. Fine Silt	7	0.0078	29'26"	21	1.8963	1.8272	0.0691	0.0100	0.0591	2.8537	74.22
5	Clay	8	0.0039	59'50"	21	1.8924	1.8324	0.0600	0.0100	0.0500	2.4143	62.79
6		9	0.002	4hr	21	1.8446	1.7922	0.0524	0.0100	0.0424	2.0473	53.25

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):		Fine < 0.063 mm (g):		Sand > 0.062 mm (g):	
Test split w (g)t:		Factor:			

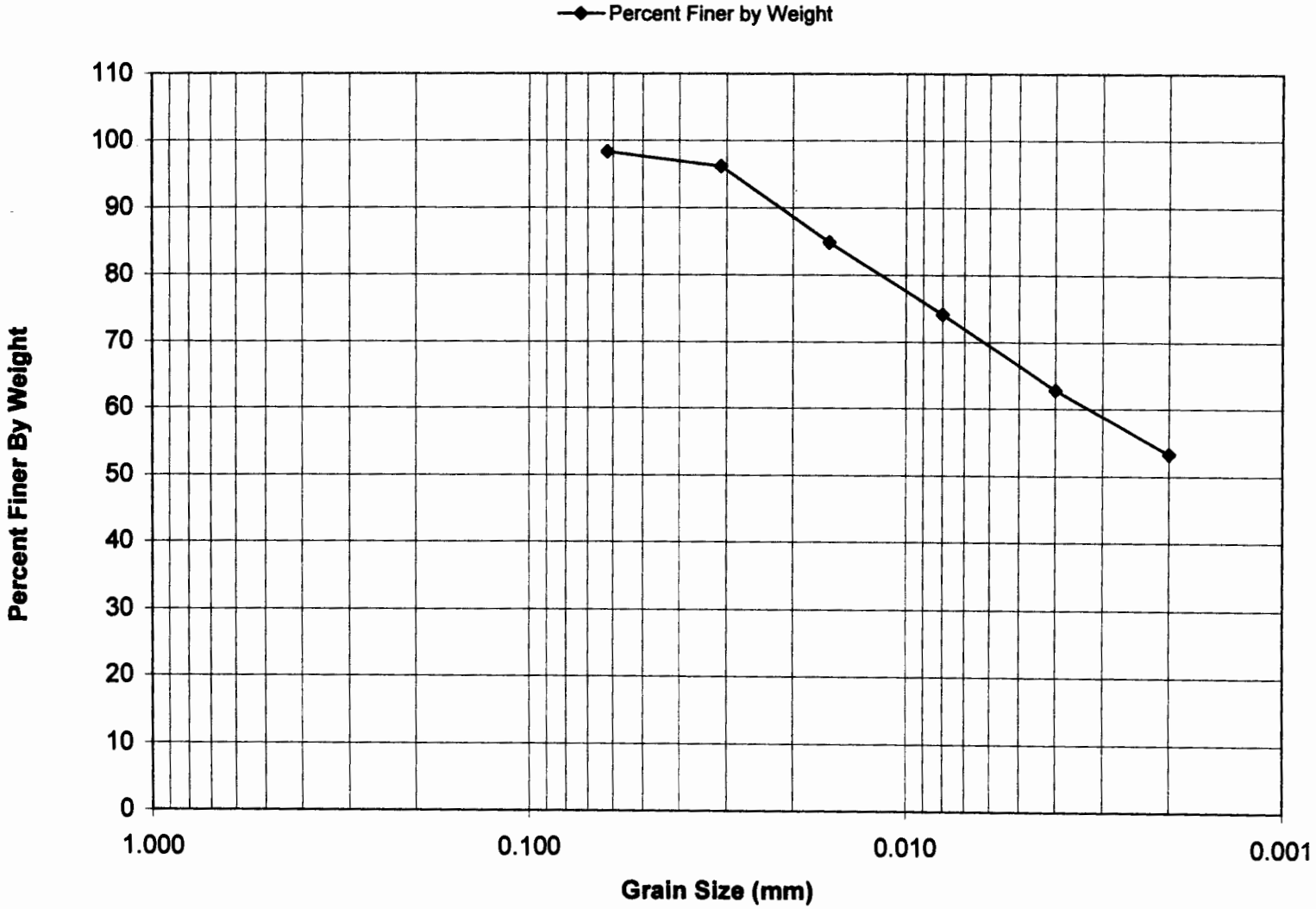
Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.7675	Sand Sed Wt (g):	0.0773	Fine Concentration (mg/L):	3767.50
Fine %	98.0%	Sand %	2.0%	Total sed wt (g):	3.8448

NOTES:

Chart 9

Particle Size Distribution

Project: COE NESP, IL River Sample ID: 273 **Chart 9**



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 10

ID: SWS 274

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River
START DATE:	8/8/2006	*COMPLETED DATE:*	9/12/2006
DELIVERY DATE:	7/11/2006	*SAMPLER:*	Jim Slowikowski
		ANALYSIS BY:	Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71									
35			1	0.5									
45	Med. Sand		1.5	0.355									
60			2	0.25									
80	Fine Sand		2.5	0.18									
120			3	0.12									
170	Very Fine Sand		3.5	0.09									
230			4	0.063									

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
1	Coarse Silt	4.01	0.062	26"	21	1.8769	1.7680	0.0889	0.0100	0.0789	3.8097	98.02
2		5	0.031	1'52"	21	1.8922	1.8047	0.0875	0.0100	0.0775	3.7421	96.28
3	Med. Silt	6	0.0156	7'29"	21	1.9172	1.8359	0.0813	0.0100	0.0713	3.4428	88.58
4	Fine Silt	7	0.0078	29'26"	21	1.9256	1.8534	0.0722	0.0100	0.0622	3.0034	77.27
5	V. Fine Silt	8	0.0039	59'50"	21	1.9590	1.8955	0.0635	0.0100	0.0535	2.5833	66.46
6	Clay	9	0.002	4hr	21	1.8731	1.8193	0.0538	0.0100	0.0438	2.1149	54.41

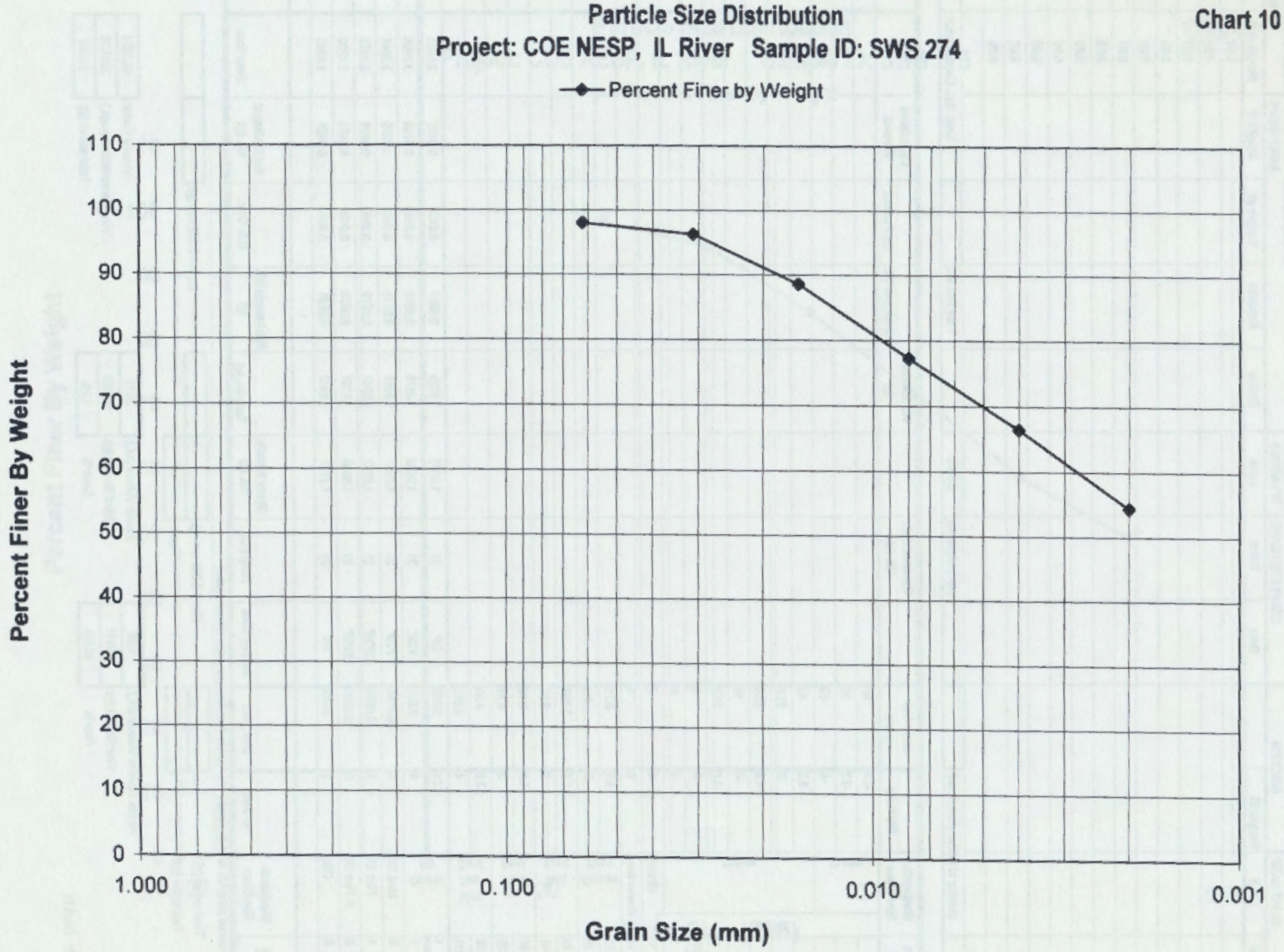
* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):		Fine < 0.063 mm (g):		Sand > 0.062 mm (g):	
Test split w (g)t:		Factor:			

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.8525	Sand Sed Wt (g):	0.0343	Fine Concentration (mg/L):	3852.50
Fine %	99.0%	Sand %	1.0%	Total sed wt (g):	3.8868

NOTES: Chart 10

Chart 10


Particle Size Distribution
Project: COE NESP, IL River Sample ID: SWS 274
Percent Finer by Weight
Percent Finer By Weight
110
100
90
80
70
60
50
40
30
20
10
0
1.000
0.100
0.010
0.001
Grain Size (mm)

ILLINOIS STATE WATER SURVEY – SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 11

ID: SWS 275

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/14/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:		Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class	Phi Units	Grain Size (mm)	Retained Split Wt. (g)	Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent	% Finer
*	Gravel – Cobble	-6.5	90						
*	Gravel – Cobble	-6.2	75						
*	Gravel – Cobble	-6	63						
*	Gravel – Pebble	-5.5	45						
*	Gravel – Pebble	-5	31.5						
*	Gravel – Pebble	-4.5	22.4						
*	Gravel – Pebble	-4	16						
*	Gravel – Pebble	-3.5	11.2						
5/6"	Gravel – Pebble	-3	8						
5	Gravel – Pebble	-2	4						
10	Granule	-1	2						
18	V. Coarse Sand	0	1						
25	Coarse Sand	0.5	0.71						
35	Coarse Sand	1	0.5						
45	Med. Sand	1.5	0.355						
60	Med. Sand	2	0.25						
80	Fine Sand	2.5	0.18						
120	Fine Sand	3	0.12						
170	Very Fine Sand	3.5	0.09						
230	Very Fine Sand	4	0.063						
1	Coarse Silt	4.01	0.062	28"	21	1.9470	1.8683	0.0887	0.0100	0.0787	3.8001	98.70
2	Coarse Silt	5	0.031	1'52"	21	1.9432	1.8576	0.0856	0.0100	0.0756	3.6504	94.82
3	Med. Silt	6	0.0156	7'29"	21	1.8857	1.8081	0.0776	0.0100	0.0676	3.2641	84.78
4	Fine Silt	7	0.0078	29'26"	21	1.8723	1.8047	0.0676	0.0100	0.0576	2.7813	72.24
5	V. Fine Silt	8	0.0039	59'50"	21	1.8630	1.8257	0.0573	0.0100	0.0473	2.2839	59.32
6	Clay	9	0.002	4hr	21	1.8701	1.8200	0.0501	0.0100	0.0401	1.9383	50.29

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	Size (mm)	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g): | Test split w (g):

Fine < 0.063 mm (g): | Factor:

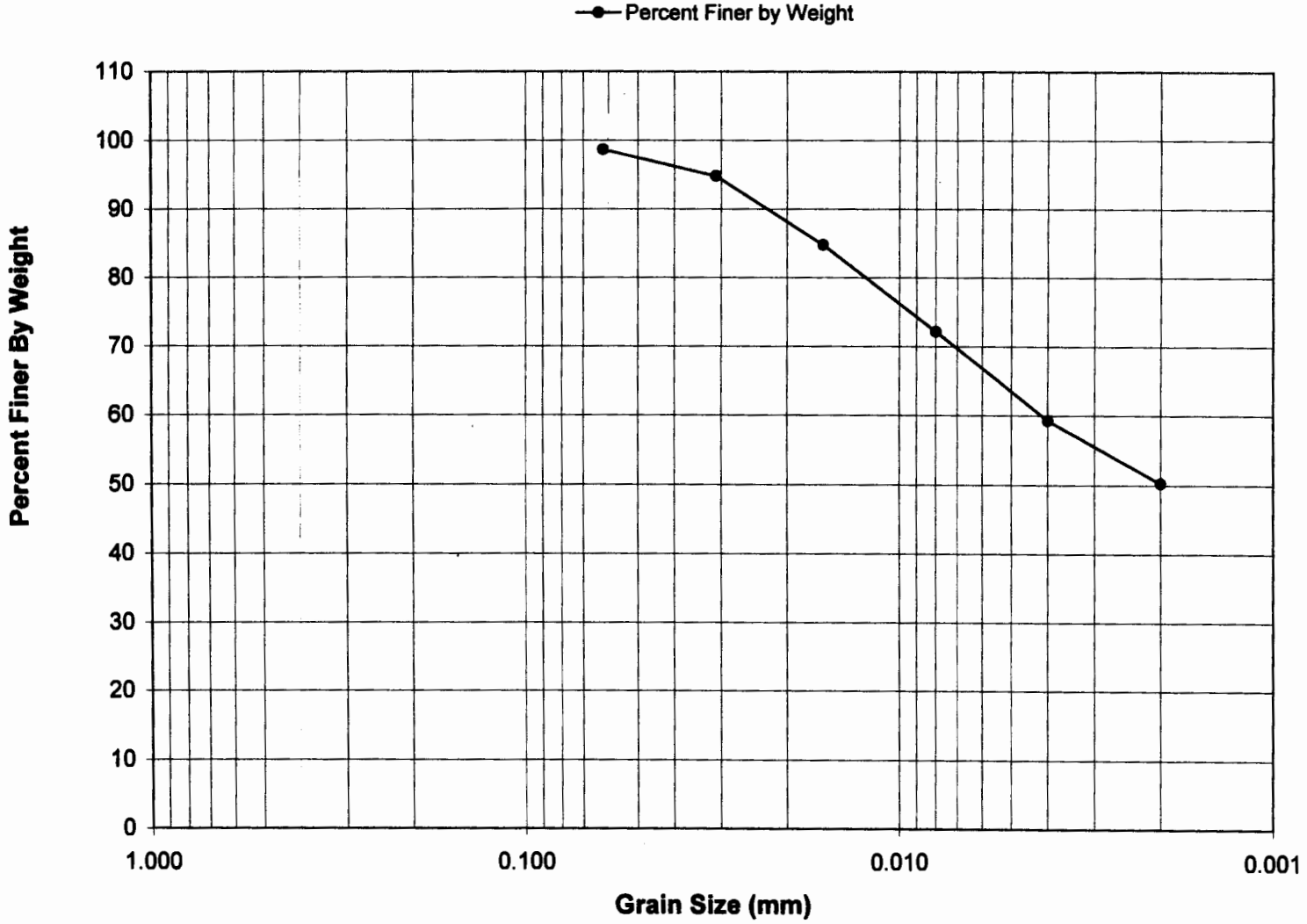
Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.8017	Sand Sed Wt (g):	0.0483	Fine Concentration (mg/L):	3801.70
Fine %	98.8%	Sand %	1.2%	Total sed wt (g):	3.8500

NOTES: Chart 11

Particle Size Distribution **Chart 11**

Project: COE NESP, IL River Sample ID: SWS 275



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 12

ID: SWS 276

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:*	7/11/2006
START DATE:	8/8/2006	*COMPLETED DATE:*	9/14/2006		

SAMPLER: Jim Slowikowski

ANALYSIS BY: Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/8"			-3	8									
5			-2	4									
10		Granule	-1	2									
18		V. Coarse Sand	0	1									
25		Coarse Sand	0.5	0.71									
35			1	0.5									
45		Med. Sand	1.5	0.355									
60			2	0.25									
80		Fine Sand	2.5	0.18									
120			3	0.12									
170		Very Fine Sand	3.5	0.09									
230			4	0.063									
1		Coarse Silt	4.01	0.062	28'	21	1.9429	1.8583	0.0846	0.0100	0.0746	3.6021	95.86

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Med. Silt	5	0.031	1'52"	21	1.9102	1.8282	0.0820	0.0100	0.0720	3.4766	92.52
3	Fine Silt	6	0.0156	7'29"	21	1.8996	1.8259	0.0737	0.0100	0.0637	3.0756	81.86
4	V. Fine Silt	7	0.0078	29'26"	21	1.9110	1.8457	0.0653	0.0100	0.0553	2.6702	71.06
5	Clay	8	0.0039	59'50"	21	1.8881	1.8295	0.0586	0.0100	0.0486	2.3467	62.45
6		9	0.002	4hr	21	1.8908	1.8403	0.0505	0.0100	0.0405	1.9566	52.04

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):

Test split w (g)t:

Fine < 0.063 mm (g):

Factor:

Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL): 1000

Fine Sed Wt (g): 3.6832

Fine %: 96.0%

Pipette Volume (mL): 20.71

Sand Sed Wt (g): 0.0744

Sand %: 2.0%

Volume Factor: 48.2868

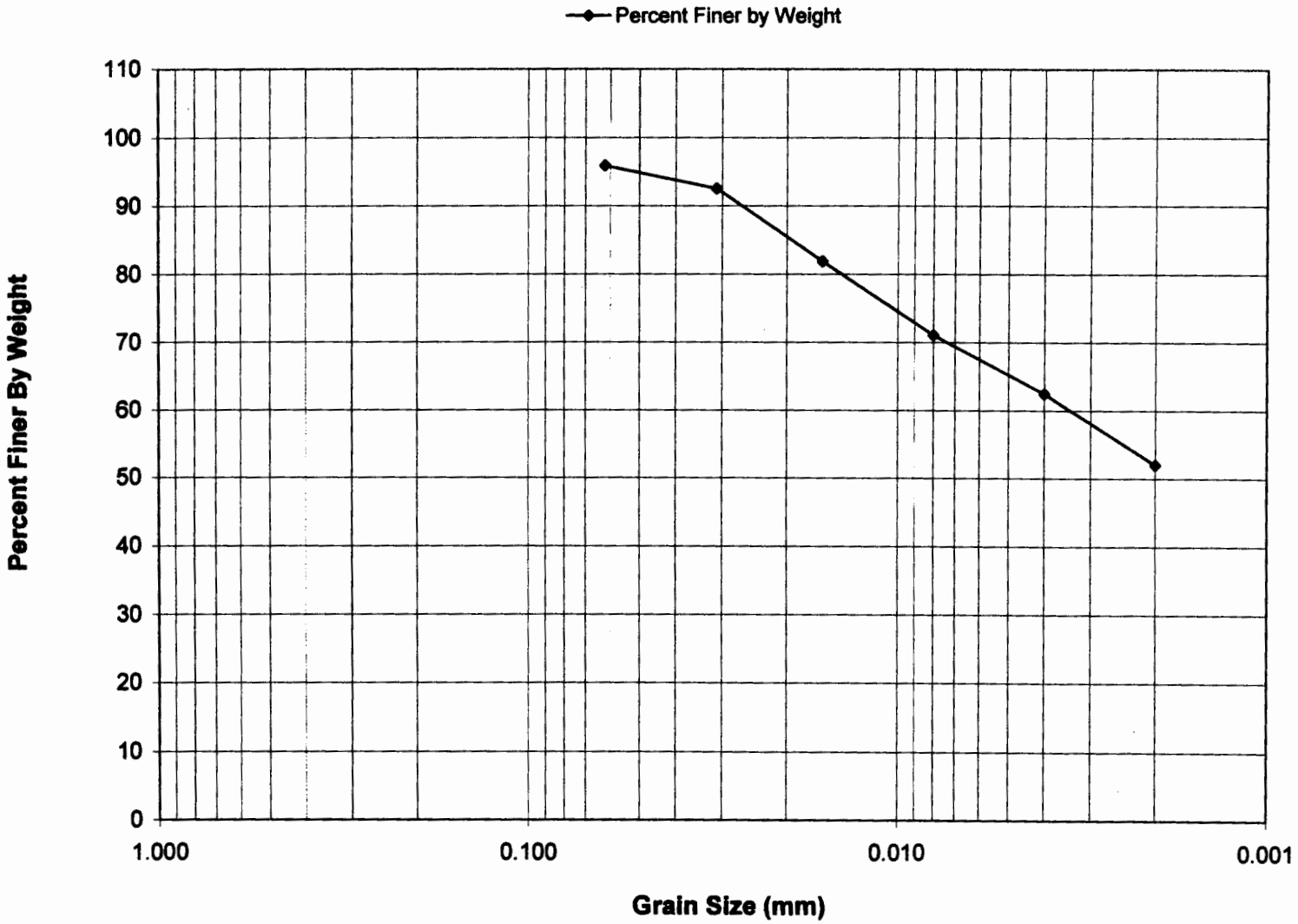
Fine Concentration (mg/L): 3683.20

Total sed wt (g): 3.7576

NOTES: Chart # 12

Particle Size Distribution **Chart 12**

Project: COE NESP, IL River Sample ID: SWS 276



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 13

ID: SWS277

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/14/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	119.4000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/8"			-3	8									
5			-2	4									
10	Granule		-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71				0.000	0.1	0.001	0.1%		99.92
35			1	0.5				0.000	0.2	0.001	0.1%		99.86
45	Med. Sand		1.5	0.355					0.2	0.000	0.1%		99.86
60			2	0.25				0.347	0.5	0.003	0.4%		99.56
80	Fine Sand		2.5	0.18				0.810	1.3	0.007	1.1%		98.86
120			3	0.12				4.740	6.1	0.040	5.1%		94.91
170	Very Fine Sand		3.5	0.09				4.920	11.0	0.041	9.2%		90.79
230			4	0.063				4.01	15.0	0.034	12.6%		87.43

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
1	Coarse Silt	4.01	0.062	28'	21	1.8616	1.7789	0.0827	0.0100	0.0727	3.5104	88.56
2	Med. Silt	5	0.031	1'52"	21	1.9664	1.8904	0.0760	0.0100	0.0660	3.1386	79.19
3	Fine Silt	6	0.0156	7'29"	21	1.9009	1.8367	0.0642	0.0100	0.0542	2.6171	66.02
4	V. Fine Silt	7	0.0078	29'26"	21	1.8366	1.7823	0.0543	0.0100	0.0443	2.1391	53.96
5	Clay	8	0.0039	59'50"	21	1.9630	1.9154	0.0476	0.0100	0.0376	1.8155	45.80
6		9	0.002	4hr	21	1.8997	1.8578	0.0419	0.0100	0.0319	1.5403	38.86

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

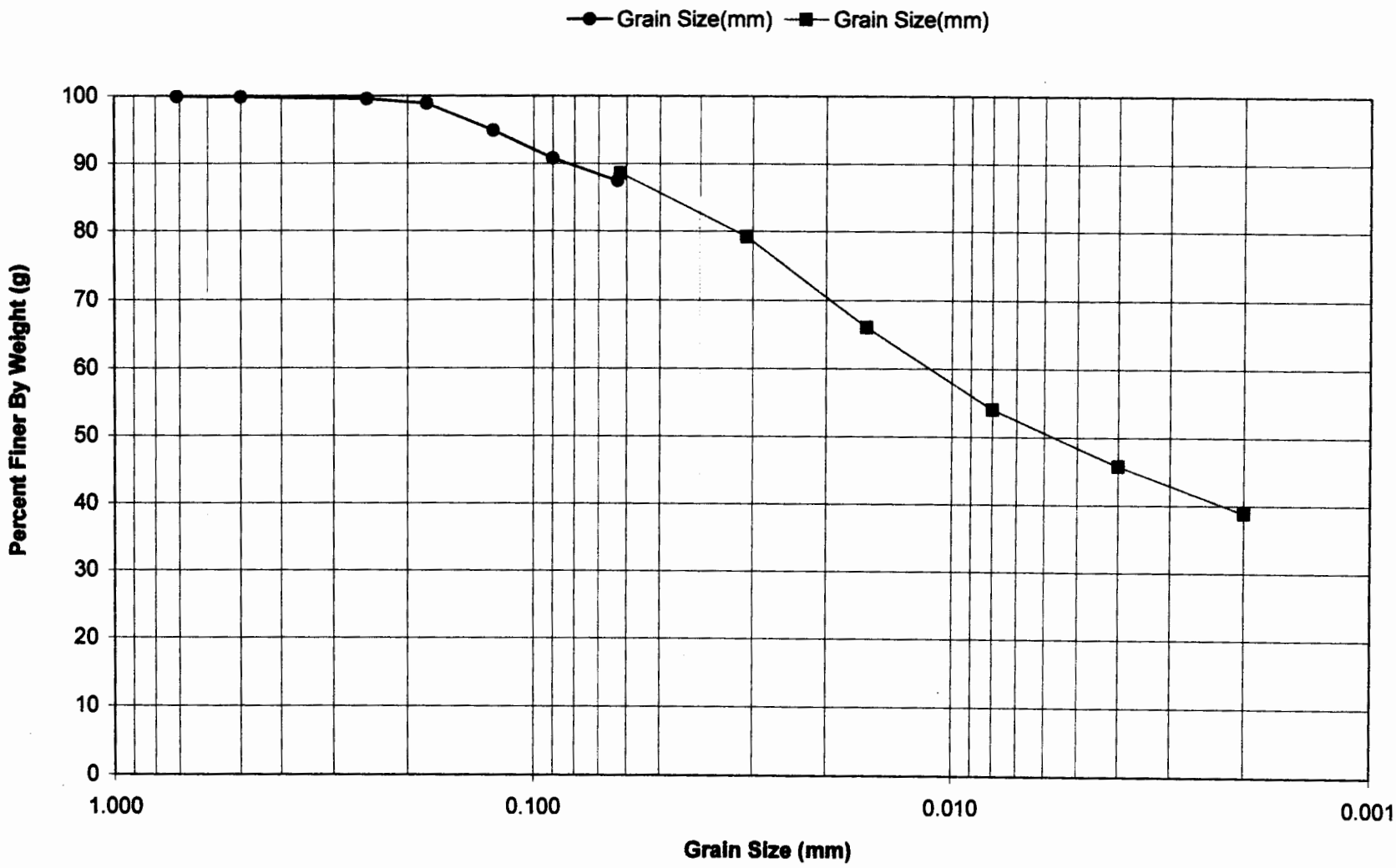
Total sed wt (g):	119.4	Fine < 0.063 mm (g):	104.4	87.4%	Sand > 0.062 mm (g): 15.00	12.56%
Test split w (g)t:		Factor:			

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71	Volume Factor:	48.2858
Fine Sed Wt (g):	3.4785	Sand Sed Wt (g):	0.4655	Fine Concentration (mg/L):	3478.50
Fine %	88.0%	Sand %	12.0%	Total sed wt (g):	3.964

NOTES: Chart # 13

Particle Size Distribution **Chart 13**

Project: COE NESP, IL River Sample ID: SWS 277



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample # 14

ID: SWS 278

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/14/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID		Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1											0.00	
2											0.00	
3											0.00	
4											0.00	
5											0.00	
6											0.00	
7											0.00	
8											0.00	
9											0.00	
10											0.00	
11											0.00	
12											0.00	
	Number of bottles composited:				Total Sample Wt:	0.0000		Total Sed Wt:	98.1200	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		*% Finer*
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6"			-3	8				2.3	2.3	0.023	2.3%		97.66
5			-2	4				0.0	0.0	0.000	0.0%		0.00
10	Granule		-1	2				0.0	0.0	0.000	0.0%		0.00
18	V. Coarse Sand		0	1				0.0	0.0	0.000	0.0%		0.00
25	Coarse Sand		0.5	0.71				0.74	3.040	0.031	3.1%		96.90
35			1	0.5				0.250	3.290	0.034	3.4%		96.65
45	Med. Sand		1.5	0.355									
60			2	0.25				1.770	5.060	0.052	5.2%		94.84
80	Fine Sand		2.5	0.18				10.108	15.168	0.155	15.5%		84.50
120			3	0.12				12.206	27.374	0.279	27.9%		72.10
170	Very Fine Sand		3.5	0.09				6.873	34.247	0.070	34.9%		65.10
230			4	0.063				4.317	38.564	0.393	39.3%		60.70
1	Coarse Silt		4.01	0.062	28"	21	1.8458	1.7878	0.0580	0.0100	0.0480	2.3177	58.52
2			5	0.031	1'52"	21	1.8777	1.8242	0.0535	0.0100	0.0435	2.1004	53.04
3	Med. Silt		6	0.0156	7'29"	21	1.8827	1.8478	0.0449	0.0100	0.0349	1.6862	42.55
4	Fine Silt		7	0.0078	29'26"	21	1.8749	1.8388	0.0383	0.0100	0.0283	1.3685	34.50
5	V. Fine Silt		8	0.0039	59'50"	21	1.8709	1.8375	0.0334	0.0100	0.0234	1.1299	28.53
6	Clay		9	0.002	4hr	21	1.8441	1.8141	0.0300	0.0100	0.0200	0.9657	24.38
Container No.	Wentworth Size Class		Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	*% Finer*

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

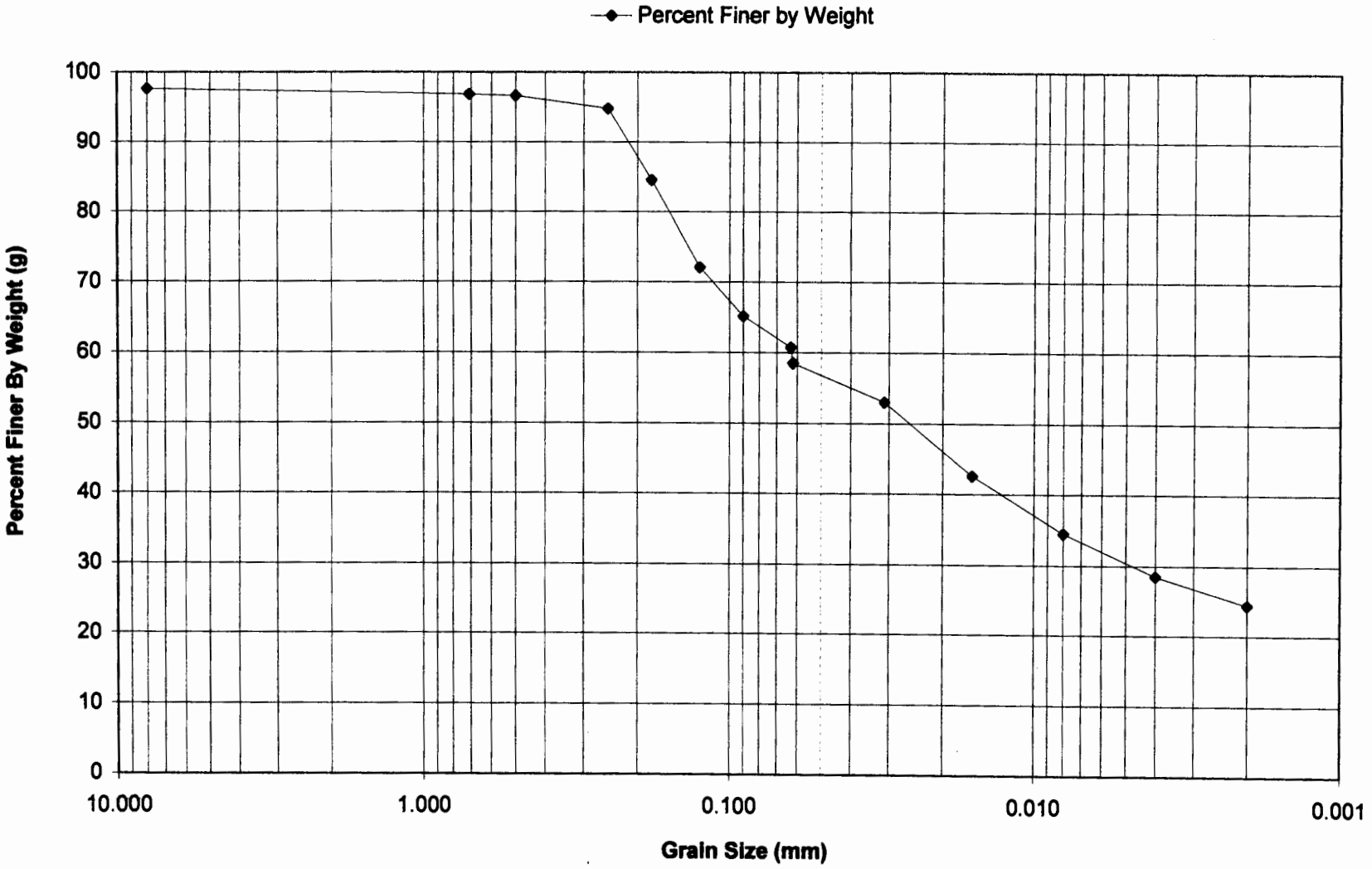
Total sed wt (g):	98.12	Fine < 0.063 mm (g):	57.26	58.4%	Sand > 0.062 mm (g):	40.86	41.6%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71		Volume Factor:	48.2858	
Fine Sed Wt (g):	2.3621	Sand Sed Wt (g):	1.5983		Fine Concentration (mg/L):	2362.10	
Fine %	59.6%	Sand %	40.4%		Total sed wt (g):	3.9604	

NOTES: Chart # 14

Particle Size Distribution
Project: COE NESP, IL River Sample ID: SWS 278

Chart 14



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 15 | ID: SWS 279

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	9/14/2006		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
	Number of bottles composited:			Total Sample Wt:	0.0000		Total Sed Wt:	101.2350	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/6*			-3	8									
5			-2	4									
10		Granule	-1	2									
18	V. Coarse Sand		0	1									
25	Coarse Sand		0.5	0.71				0.264	0.264	0.003	0.3%		99.74
35			1	0.5				0.200	0.464	0.002	0.5%		99.54
45	Med. Sand		1.5	0.355					0.464	0.000	0.5%		99.54
60			2	0.25				2.186	2.650	0.022	2.6%		97.38
80	Fine Sand		2.5	0.18				8.290	10.940	0.082	10.8%		89.19
120			3	0.12				5.390	16.330	0.053	16.1%		83.87
170	Very Fine Sand		3.5	0.09				3.940	20.270	0.039	20.0%		79.98
230			4	0.063				3.670	23.940	0.036	23.6%		76.36
1	Coarse Silt		4.01	0.062	28'	21	1.8947	1.8216	0.0731	0.0100	0.0831	3.0466	76.75
2			5	0.031	1'52"	21	1.9124	1.8423	0.0701	0.0100	0.0801	2.9020	73.10
3	Med. Silt		6	0.0156	7'29"	21	1.8712	1.8106	0.0606	0.0100	0.0506	2.4433	61.54
4	Fine Silt		7	0.0078	29'26"	21	1.9440	1.8913	0.0527	0.0100	0.0427	2.0618	51.93
5	V. Fine Silt		8	0.0039	59'50"	21	1.8988	1.8533	0.0455	0.0100	0.0355	1.7141	43.18
6	Clay		9	0.002	4hr	21	1.8402	1.8016	0.0386	0.0100	0.0286	1.3810	34.79

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer

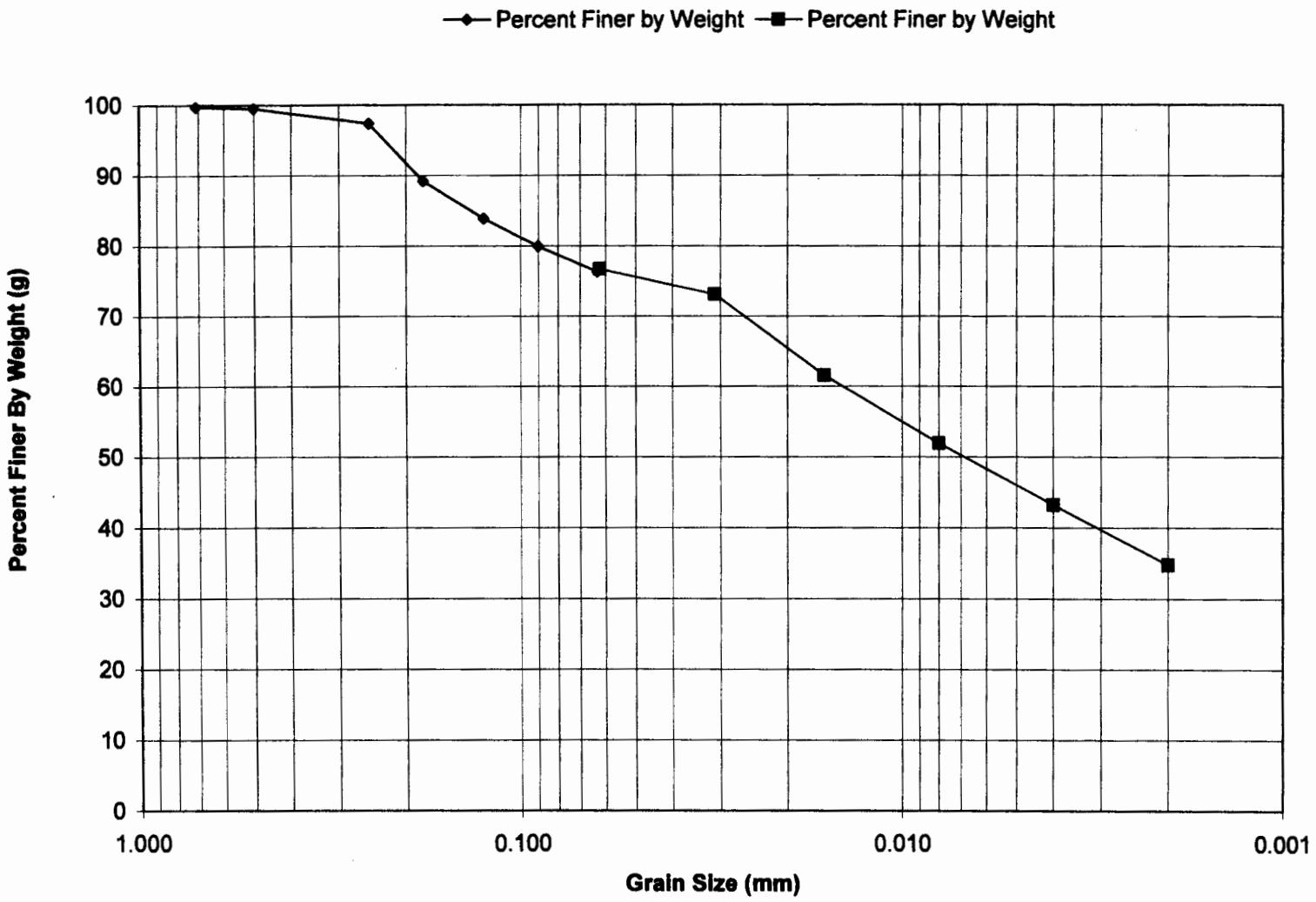
* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):	101.24	Fine < 0.063 mm (g):	77.3	76.4%	Sand > 0.062 mm (g):	23.94	23.6%
Test split w (g)t:		Factor:					

Pipette Cylinder Volume (mL):	1000	Pipette Volume (mL):	20.71		Volume Factor:	48.2858	
Fine Sed Wt (g):	3.1583	Sand Sed Wt (g):	0.8117		Fine Concentration (mg/L):	3158.30	
Fine %	79.5%	Sand %	20.5%		Total sed wt (g):	3.97	

NOTES: Chart # 15

Particle Size Distribution
Project: COE NESP, IL River Sample ID: SWS 279 **Chart 15**



ILLINOIS STATE WATER SURVEY -- SEDIMENT AND MATERIALS LABORATORY

PARTICLE SIZE ANALYSIS BY PIPETTE AND SIEVE METHODS

PS JOB: PS Job 63 Sample# 16

ID: SWS 280

PROJECT:	COE NESP IL RIVER	*STREAM:*	IL River	*DELIVERY DATE:* 7/11/2006	*SAMPLER:* Jim Slowikowski
START DATE:	8/8/2006	*COMPLETED DATE:*	09/14/06		*ANALYSIS BY:* Yi Han

PS FOR SUSPENDED SEDIMENT ANALYSIS

Pan #	Lab #	Sample ID	Date	Time	Cond	Station	Remarks	Sample gr	Sample tr	Sample Net	Comments
1										0.00	
2										0.00	
3										0.00	
4										0.00	
5										0.00	
6										0.00	
7										0.00	
8										0.00	
9										0.00	
10										0.00	
11										0.00	
12										0.00	
Number of bottles composited:			Total Sample Wt:		0.0000		Total Sed Wt:	0.0000	Susp. Sed. Concentration:		#DIV/0!

PS BY SIEVE METHOD

Sieve No.	Wentworth Size Class		Phi Units	*Grain Size (mm)*		Retained Split Wt. (g)		Wt. Retained (g)	Cumulative Wt.	Wt. Percent	Cumulative Percent		% Finer
*	Gravel	Cobble	-6.5	90									
*			-6.2	75									
*			-6	63									
*		Pebble	-5.5	45									
*			-5	31.5									
*			-4.5	22.4									
*			-4	16									
*			-3.5	11.2									
5/8"			-3	8									
5			-2	4									
10		Granule	-1	2									
18		V. Coarse Sand	0	1									
25		Coarse Sand	0.5	0.71									
35			1	0.5									
45		Med. Sand	1.5	0.355									
60			2	0.25									
80		Fine Sand	2.5	0.18									
120			3	0.12									
170		Very Fine Sand	3.5	0.09									
230			4	0.063									
PAN				<0.063									
1		Coarse Silt	4.01	0.062	26"	21	1.9192	1.8355	0.0837	0.0100	0.0737	3.5587	90.95

PS BY PIPETTE METHOD

Container No.	Wentworth Size Class	Phi Units	*Size (mm)*	Settling Time	Temp (C)	Gross Sample Wt. (g)	Tare Wt. (g)	Net Sample Wt. (g)	D.S. Corr.	Net Sediment Wt. (g)	Finer than	% Finer
2	Coarse Silt	5	0.031	1'52"	21	1.9084	1.8278	0.0786	0.0100	0.0686	3.3124	84.66
3	Med. Silt	6	0.0156	7'29"	21	1.9374	1.8703	0.0671	0.0100	0.0571	2.7571	70.46
4	Fine Silt	7	0.0078	29'26"	21	1.8959	1.8388	0.0571	0.0100	0.0471	2.2743	58.12
5	V. Fine Silt	8	0.0039	59'50"	21	1.8704	1.8215	0.0489	0.0100	0.0389	1.8783	48.00
6	Clay	9	0.002	4hr	21	1.8673	1.8342	0.0431	0.0100	0.0331	1.5963	40.85

* Hand-sorted using US SAH-97 Hand-Held Particle Size Analyzer (aka: Gravelometer)

Total sed wt (g):

Test split w (g)t:

Fine < 0.063 mm (g):

Factor:

Sand > 0.062 mm (g):

Pipette Cylinder Volume (mL): 1000

Fine Sed Wt (g): 3.5795

Fine %: 91.50%

Pipette Volume (mL): 20.71

Sand Sed Wt (g): 0.3333

Sand %: 8.50%

Volume Factor: 48.2868

Fine Concentration (mg/L): 3679.50

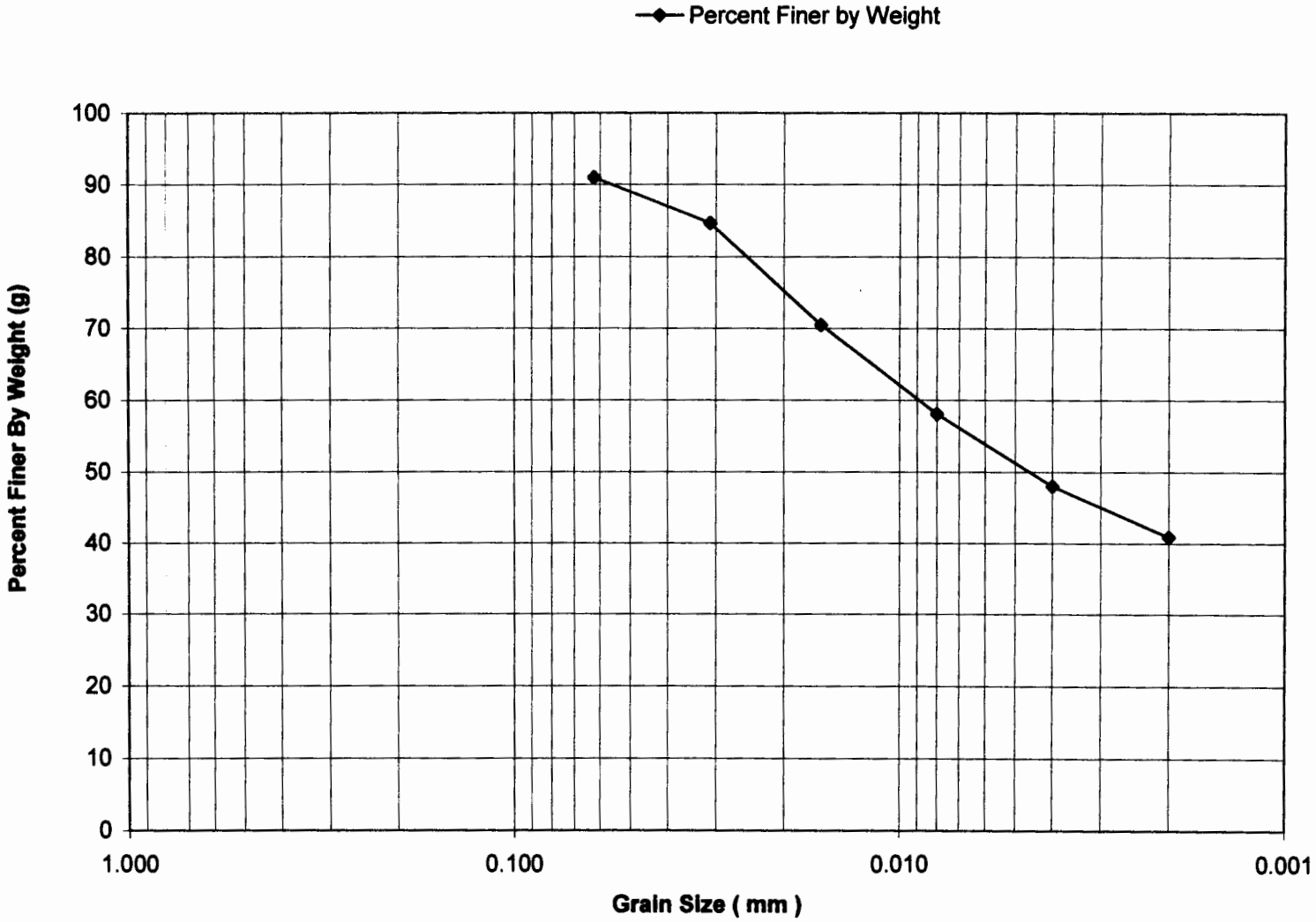
Total sed wt (g): 3.9128

NOTES:

Charts# 16

Particle Size Distribution **Chart 16**

Project: COE NESP, IL River Sample ID: SWS 280



Appendix E. Percent Moisture

Percent Moisture

Sample Number	*Segment Reach*	*Percent moisture (wet basis)*	*Percent moisture (dry basis)*
265	166-168	26.4	35.9
265	126-128	28.9	40.7
265	86-88	36.2	56.9
265	46-48	50.7	102.8
265	6-8	45.8	84.6
266	206-208	32.6	48.5
266	166-168	35.5	55.0
266	126-128	46.0	85.3
266	86-88	55.3	123.6
266	46-48	52.9	112.3
266	6-8	59.0	143.7
267	166-168	17.6	21.4
267	126-128	22.0	28.2
267	86-88	42.0	72.4
267	46-48	46.3	86.2
267	6-8	54.3	119.0
268	246-248	33.6	50.7
268	206-208	32.6	48.5
268	166-168	40.5	68.1
268	126-128	58.8	142.5
268	86-88	51.8	107.6
268	46-48	56.1	127.6
268	6-8	59.0	143.8
269	246-248	27.4	37.8
269	206-208	56.9	132.2
269	166-168	43.3	76.3
269	126-128	50.1	100.6
269	86-88	51.3	105.5
269	46-48	37.4	59.7
270	6-8	44.7	81.0
270	166-168	25.8	34.8
270	126-128	29.6	42.1
270	86-88	41.8	71.8
270	46-48	46.2	85.7
271	6-8	48.0	92.4
271	206-208	30.5	43.8
271	166-168	53.5	115.0
271	126-128	57.4	134.6
271	86-88	56.0	127.5
271	46-48	54.4	119.4
272	6-8	57.1	132.8
272	166-168	28.5	39.9
272	126-128	46.4	86.5
272	86-88	53.1	113.3
272	46-48	44.6	80.4

Percent Moisture (cont.)

Sample Number	*Segment Reach*	*Percent moisture (wet basis)*	*Percent moisture (dry basis)*
273	6-8	33.6	50.6
273	206-208	33.9	51.2
273	166-168	30.5	43.9
273	126-128	50.3	101.4
273	86-88	54.4	119.3
273	46-48	50.0	100.1
274	6-8	49.6	98.3
274	206-208	57.9	137.7
274	166-168	55.0	122.4
274	126-128	52.5	110.6
274	86-88	52.1	108.6
274	46-48	45.2	82.4
275	6-8	51.9	108.0
275	86-88	27.2	37.4
275	46-48	48.3	93.5
276	6-8	51.1	104.4
276	246-248	28.1	39.1
276	206-208	29.6	42.0
276	166-168	25.5	34.2
276	126-128	27.1	37.1
276	86-88	39.1	64.2
276	46-48	19.2	23.7
277	6-8	56.3	128.8
277	86-88	19.1	23.7
277	46-48	32.8	48.7
278	6-8	56.3	128.7
278	166-168	15.4	18.2
278	126-128	18.1	22.1
278	86-88	20.2	25.3
278	46-48	30.2	43.3
279	6-8	57.9	137.6
279	206-208	18.3	22.4
279	166-168	21.0	26.5
279	126-128	23.2	30.2
279	86-88	24.3	32.1
279	46-48	39.8	66.0
280	6-8	59.4	146.5
280	126-128	25.1	33.4
280	86-88	28.9	40.7
280	46-48	50.1	100.3

Appendix F. Photographs of Sediment Cores

265a

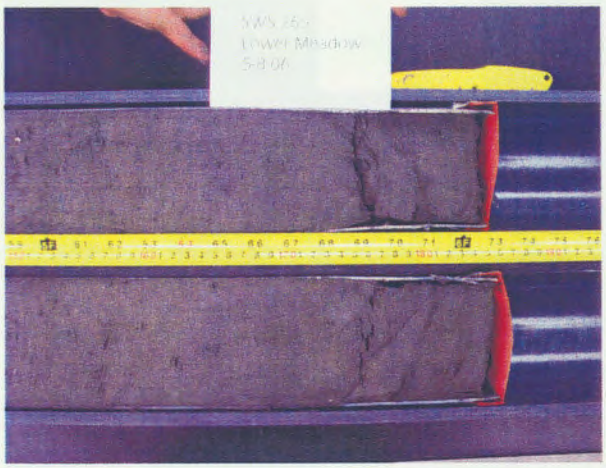
265b

265c

265d

265 e

265f



265g

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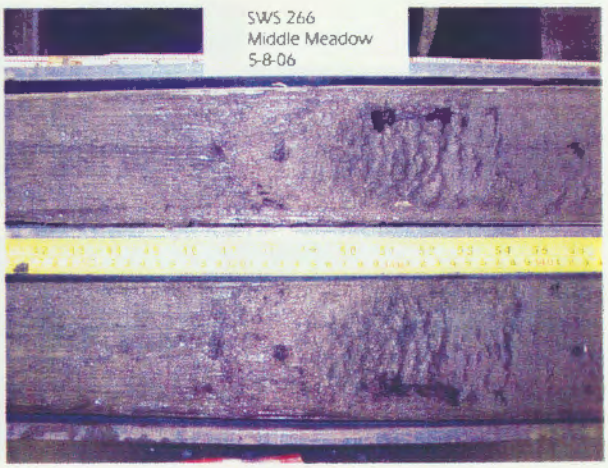

266e

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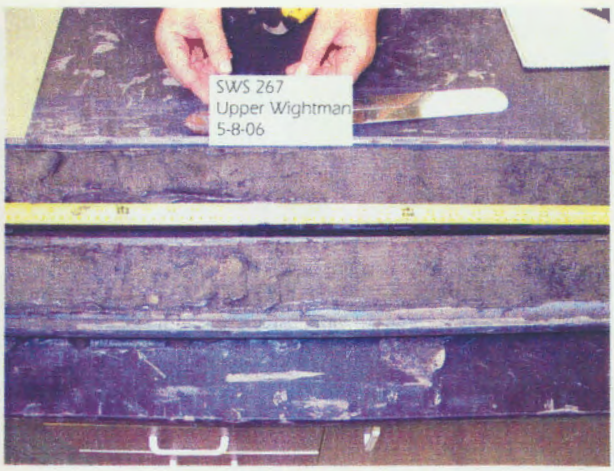
267a



267b

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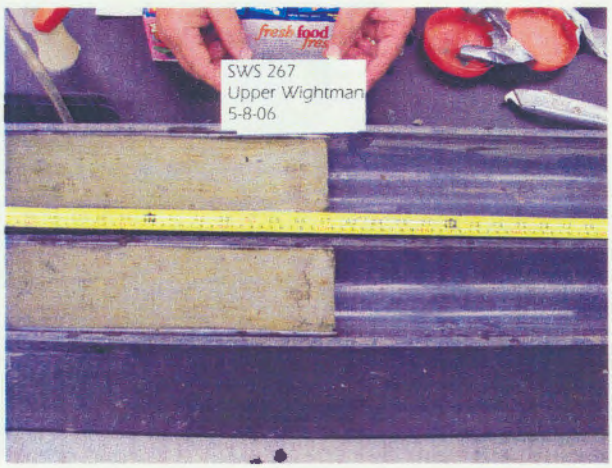
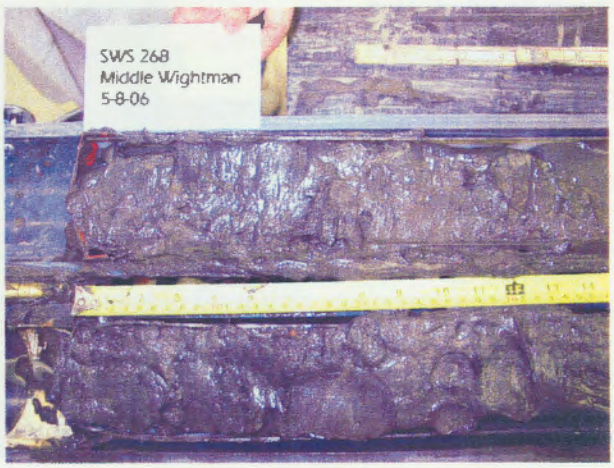
267e



267f



268a

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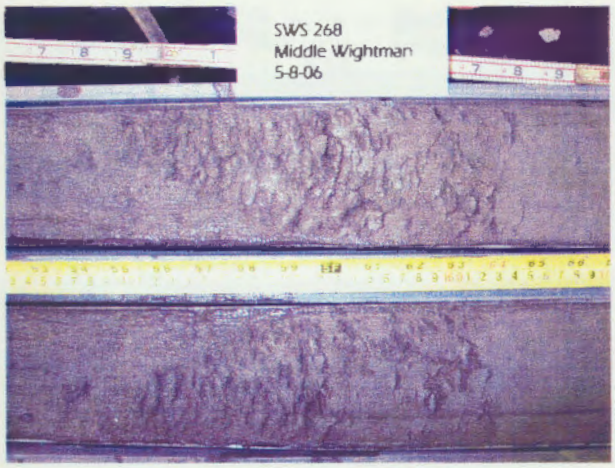
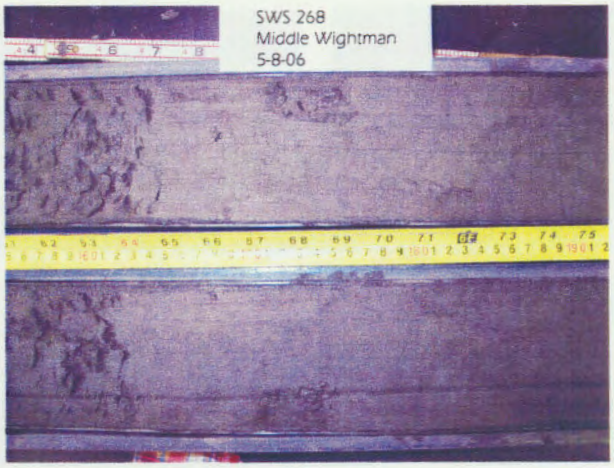
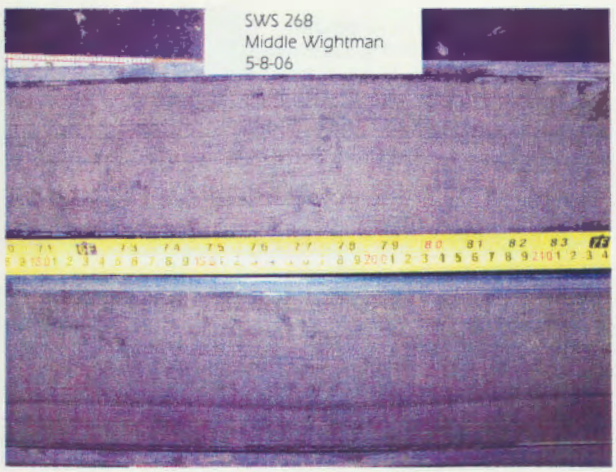


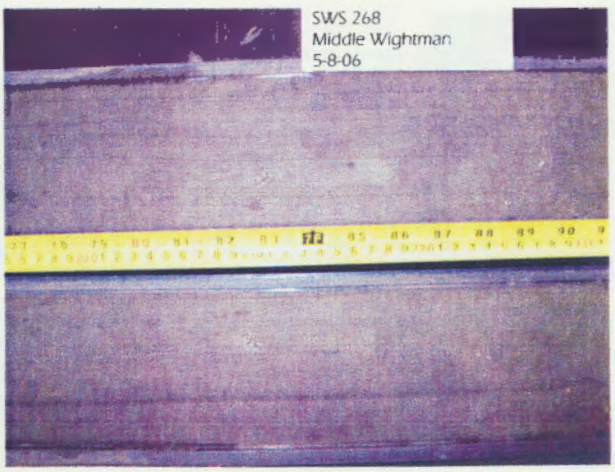
268f



268g



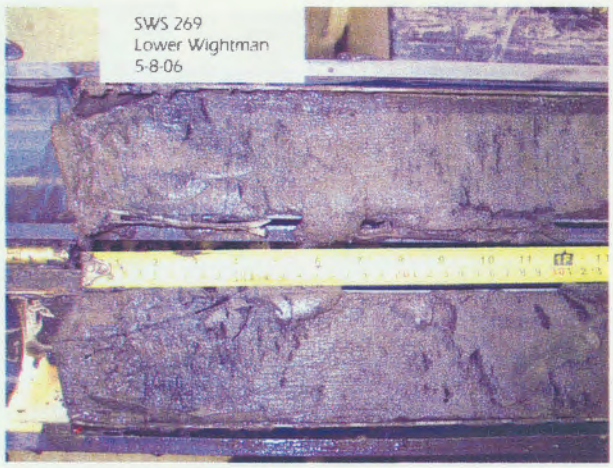
268h



268i

268j

268k



269a

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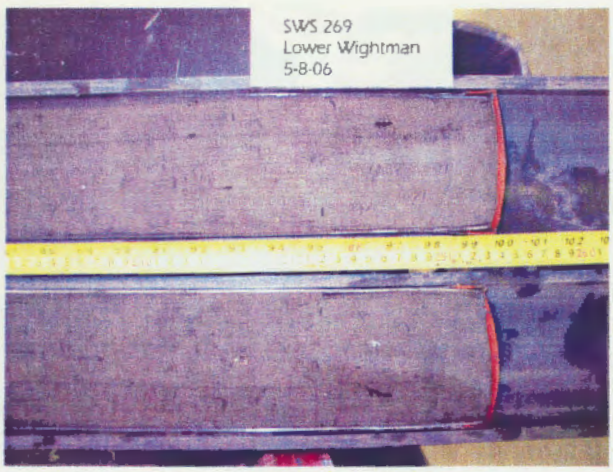
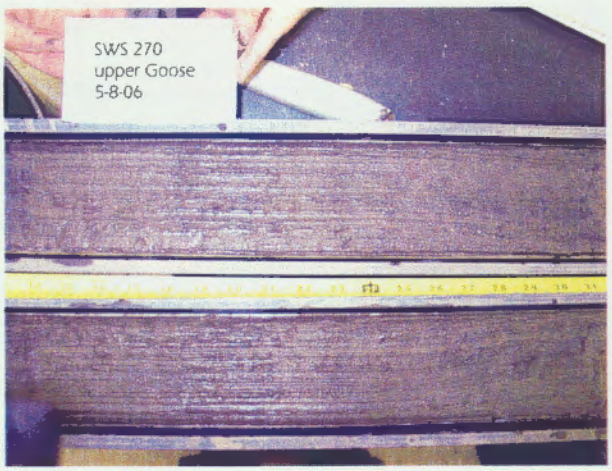


269j

270a



270b

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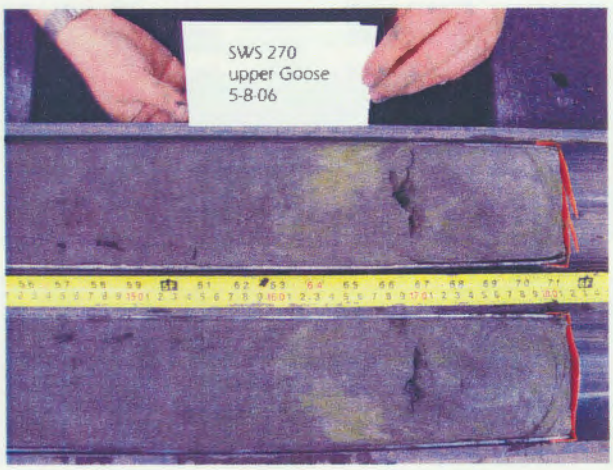

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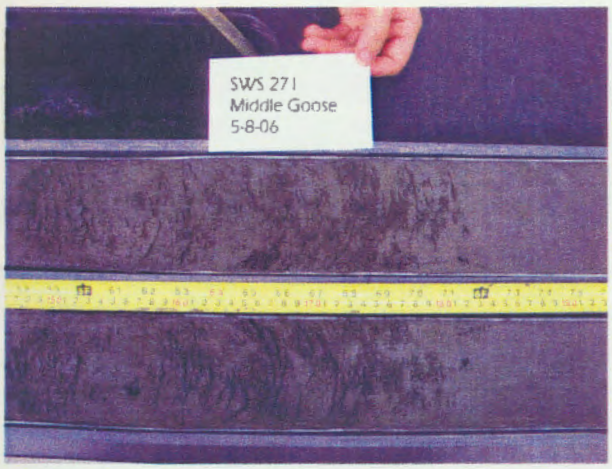

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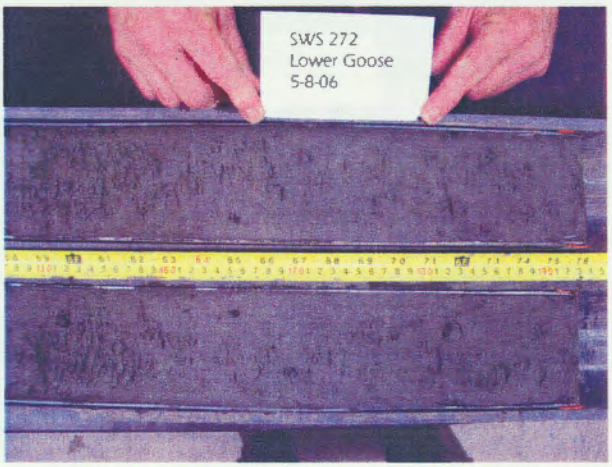

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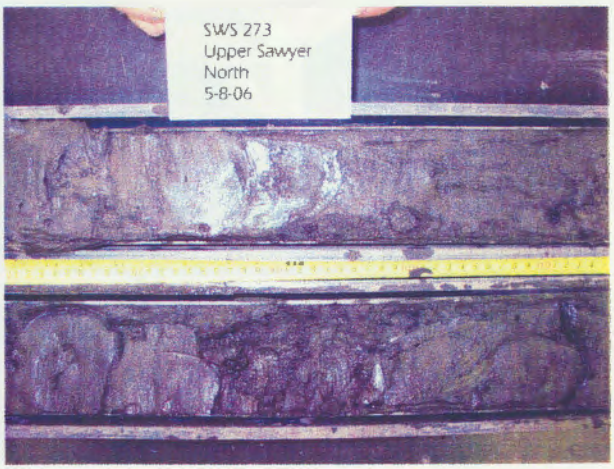

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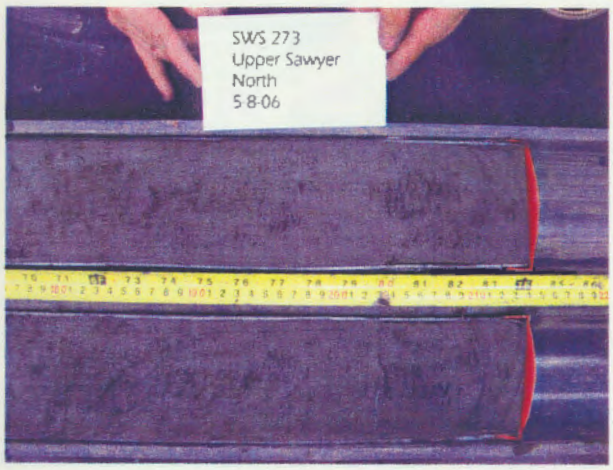

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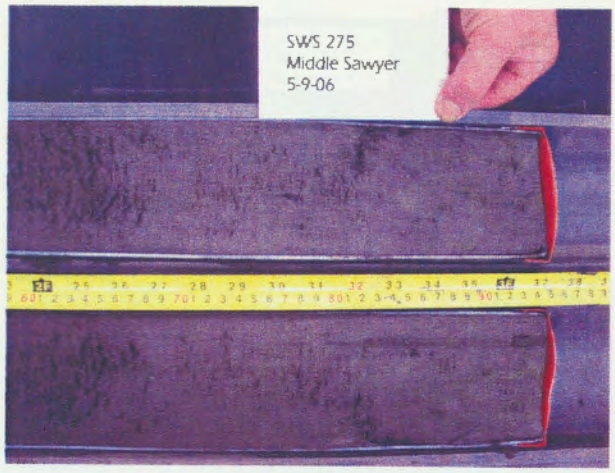

275c

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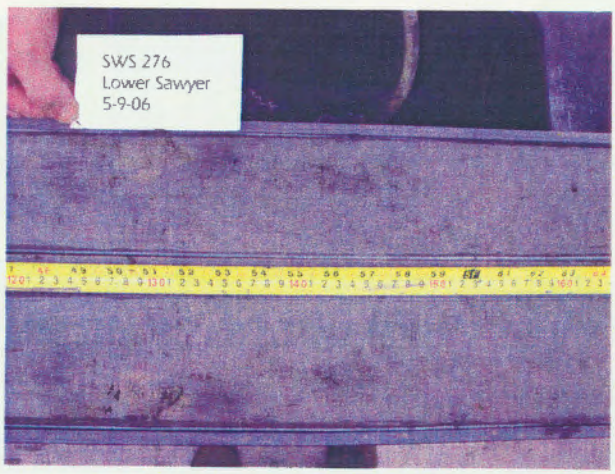

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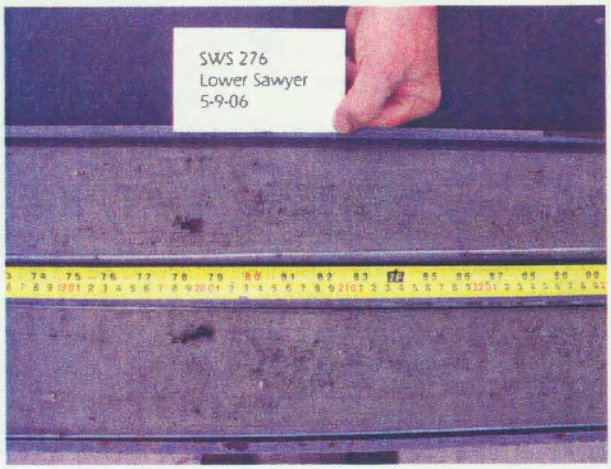

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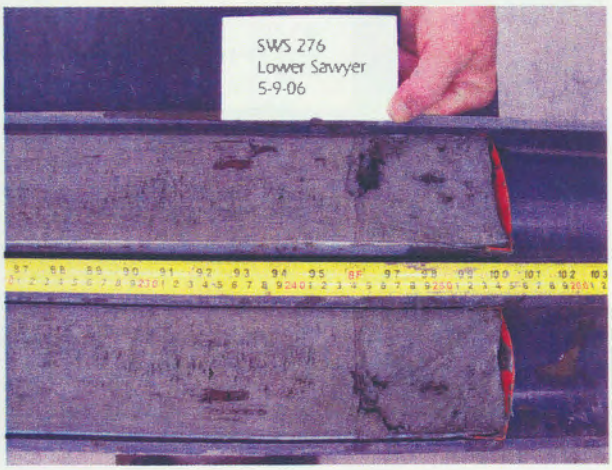

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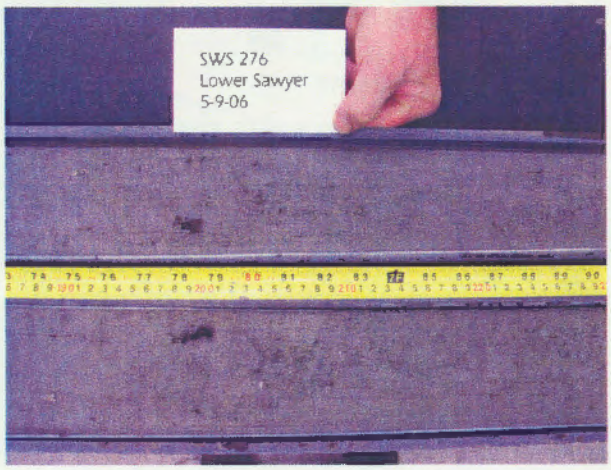

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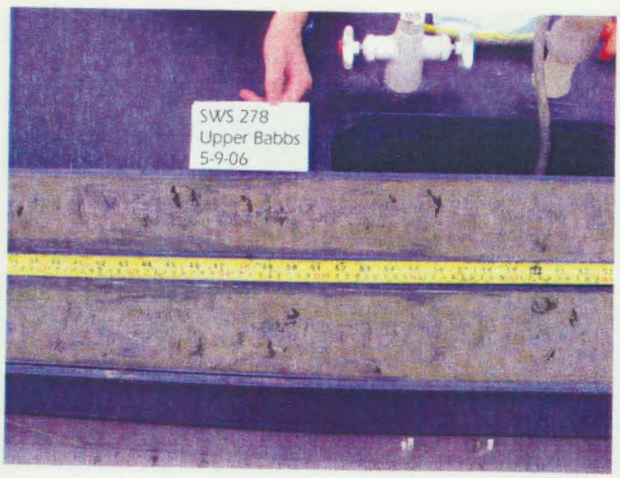

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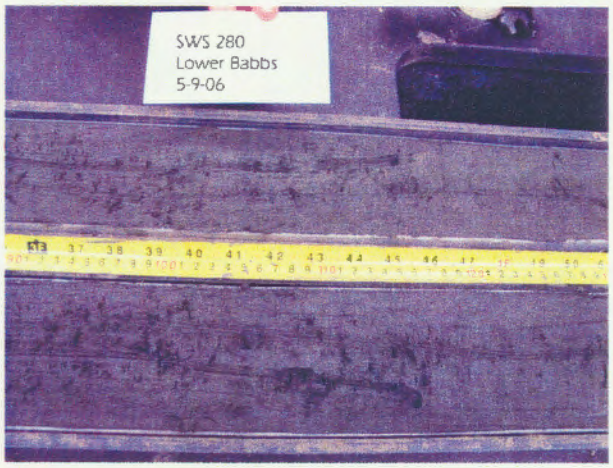

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